DRIFT BOTTLE RECORDS FOR GULF OF MAINE AND GEORGES BANK, 1931-56

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United States Department of the Interior, Fred A. Seaton, Secretary
Fish and Wildlife Service, Arnie J. Suomela, Commissioner

DRIFT BOTTLE RECORDS FOR GULF OF MAINE AND GEORGES BANK, 1931-56

by

Dean F. Bumpus, Oceanographer, and
C. Godfrey Day, Research Assistant
Woods Hole Oceanographic Institution

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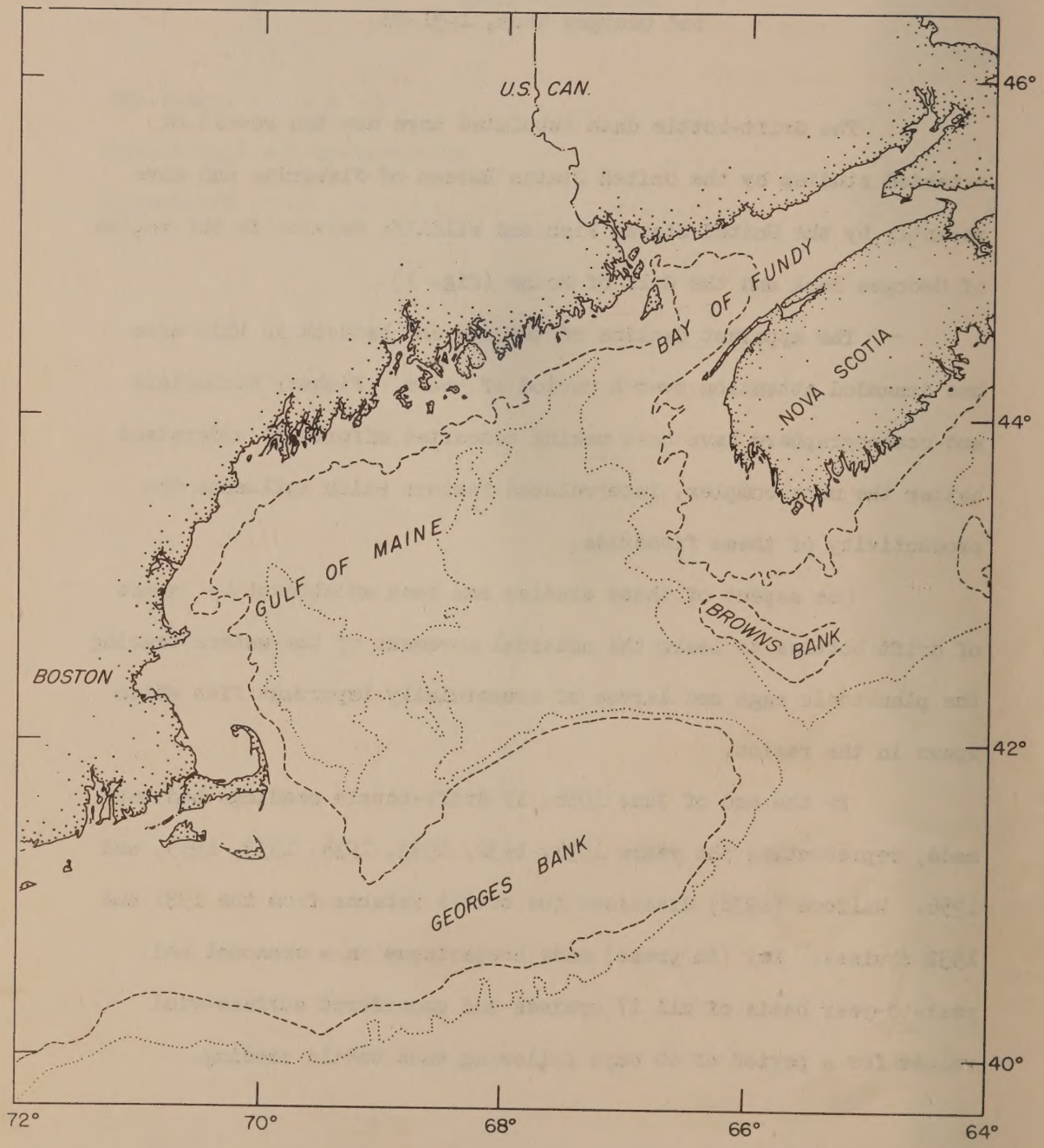
Drift Bottle Records for Gulf of Maine and Georges Bank, 1931-56

The drift-bottle data tabulated here are the result of extended studies by the United States Bureau of Fisheries and more recently by the United States Fish and Wildlife Service in the region of Georges Bank and the Gulf of Maine (fig. 1).

The apparent decline of the cod and haddock in this area has demanded attention over a period of years. Fishery biologists and oceanographers have been making concerted efforts to understand better the many complex, interrelated factors which influence the productivity of these fisheries.

One aspect of these studies has been an attempt by means of drift bottles to learn the nontidal movement of the waters bearing the planktonic eggs and larvae of commercially important fish which spawn in the region.

By the end of June 1956, 17 drift-bottle seedings had been made, representing the years 1931, 1932, 1933, 1934, 1953, 1955, and 1956. Walford (1938) discussed the bottle returns from the 1931 and 1932 cruises. Day (in press) made comparisons on a seasonal and year-to-year basis of all 17 cruises and considered surface-wind values for a period of 60 days following each bottle seeding.


U.S.
CAN.
46°
BAY OF FUNDY
NOVA SCOTIA
44°
GULF OF MAINE
BROWNS BANK
BOSTON
42°
GEORGES BANK
40°
72°
70°
68°
66°
64°

THE DATA

The original data are on file at the Woods Hole Oceanographic Institution, where a punchcard system is maintained and supplemented as new returns are received or further studies initiated.

The listings below include all recoveries on record as of 5 December 1956 in the Georges Bank - Gulf of Maine area from the following cruises:

1931 Albatross II, 17-29 April

Albatross II, 26 May - 7 June

1932 Albatross II, 4-18 April

1933 Atlantis, cruise 16, 19-28 June

1934 Atlantis, cruise 28, 27 April - 13 May

1953 Albatross III, cruise 46, 19 March - 2 April

Albatross III, cruise 48, 24 April - 8 May

Albatross III, cruise 50, 25 May - 2 June

1955 Albatross III, cruise 57, 21 February - 2 March

Albatross III, cruise 58, 19 March - 1 April

Albatross III, cruise 60, 19 April - 3 May

Albatross III, cruise 61, 16-28 May

1956 Albatross III, cruise 71, 20 February - 2 March

Albatross III, cruise 72, 21-31 March

Albatross III, cruise 73, 17-28 April

Albatross III, cruise 75, 16-29 Mary

Albatross III, cruise 76, 11-24 June

Returns received between 5 December 1956 and 21 October 1957 are listed in the Appendix.

The records for the cruises made during the 1930's are believed complete so far as returns are concerned. However, the original logs do not adequately record all release positions; consequently, in some instances positions of bottle-drop stations from which there were no returns cannot be listed. This is particularly true in the cases where bottles were distributed in pairs every 2 miles along a track.

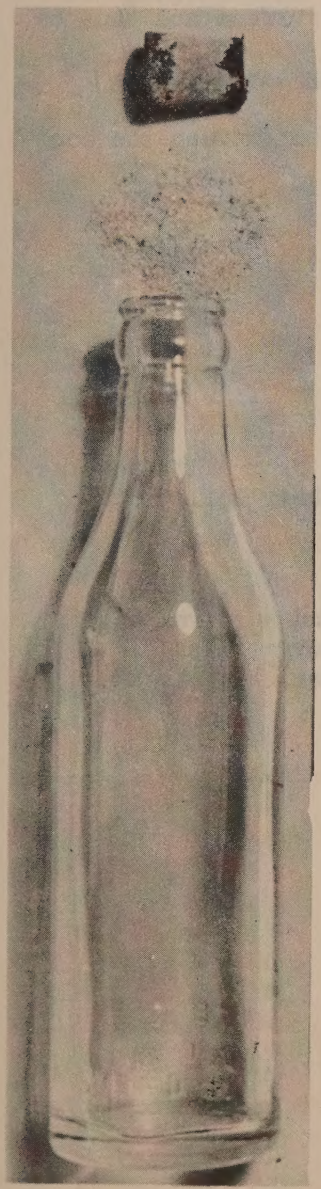
Data for the Albatross III cruises made during the 1950's are complete in all respects both as to releases and recoveries. During this period bottles were released only at stations, which formed a fairly uniform grid over the area of study.

BOTTLE TYPE AND DISTRIBUTION

The bottles used were those commonly employed for carbonated drinks. They were of clear glass and measured approximately 22 cm. high and 6 cm. in diameter with a capacity of 8 fluid ounces.

Of the bottles released on the 1931-34 cruises, most were equipped with drogues in an effort to reduce windage. More often than not, however, the drogue had been lost sometime before the bottle was recovered.

In figure 2 the components of the bottles used during the 1950's are shown; a completed drift bottle is shown at the right.



BREAK THIS BOTTLE

This bottle is one of several hundred released at sea to study ocean currents. The exact place and date of release has been recorded and is on file.

You can make the record for this bottle complete by furnishing the information requested on the enclosed postal card. We will send a reward of fifty cents ($.50), and tell you where the bottle was dropped overboard if you will return the card with the best information you can provide.

Your information will be combined with that sent in by other finders of bottles. This is part of a study of the drift of floating objects being conducted by the Woods Hole Oceanographic Institution, the Fish and Wildlife Service and the Fisheries Research Board of Canada.

Your cooperation in giving accurate information will be of great aid.

Nº 34101

FINDER OF THIS BOTTLE
PLEASE FILL IN THE INFORMATION
AS INDICATED AND SEND BY MAIL

Nº 34101

When found, date .....

Where found (name of beach or place on shore, near what Coast Guard station, Lighthouse, or other prominent reference point) .....

Your Name (sign and print) .....

Your Home Address (print) .....

.....

.....

Fifty Cents ($.50) will be sent to finder on return of this card.

FIRST CLASS
PERMIT NO. 21
WOODS HOLE, MASS

BUSINESS REPLY CARD
NO POSTAGE STAMP NECESSARY IF MAILED IN THE UNITED STATES

WOODS HOLE OCEANOGRAPHIC INSTITUTION
WOODS HOLE, MASSACHUSETTS

Instead of drogues, dry sand ballast was added to all odd-numbered bottles. Those with even numbers contained no ballast. Six of each were launched at each release station. It was intended that the ballasted bottles float vertically at or near the surface and thus be less influenced by the action of winds and breaking waves. The results, however, indicate no significant difference between the conjectured movement of the two types.

LITERATURE CITED

Day, D. Godfrey
In press. Gulf of Maine circulation as deduced from drift bottles. U. S. Fish and Wildlife Service, Fishery Bulletin. In press.

Walford, Lionel A.
1938. Effect of currents on distribution and survival of the eggs and larvae of the haddock on Georges Bank. Bulletin of the U. S. Bureau of Fisheries, vol. 49.

Drift Bottle Records for the Gulf of Maine and Georges Bank

from 1931 through 1956

Returns from 5 December 1956 to 21 October 1957
listed in Appendix

ALBATROSS II 17-29 April, 1931

10 bottles with drags released at each station

	Released			Recovered		
Bottle	Lat	Long	Date	Lat	Long	Date
	42 06	69 54	17 Apr	No returns		
3012	41 41	69 39	17 Apr	41 21	70 40	22 Jul 31
3018	41 41	69 39	17 Apr	41 21	70 39	25 Jul 31
3019	41 41	69 39	17 Apr	41 30	71 12	23 Jul 31
3030	41 14	69 22	17 Apr	43 10	65 38	28 Jul 31
3037	40 49	69 06	18 Apr	41 15	70 05	16 Jul 31
3038	40 49	69 06	18 Apr	41 20	70 49	31 Jul 31
3040	40 49	69 06	18 Apr	41 21	70 39	26 Jul 31
3047	40 24	69 40	18 Apr	41 21	70 51	1 Jun 31
3060	40 53	69 59	18 Apr	41 19	70 49	25 May 31
3065	41 05	70 48	20 Apr	41 27	71 26	23 May 31
3066	41 05	70 48	20 Apr	41 21	70 30	1 May 31
3067	41 05	70 48	20 Apr	41 20	70 45	8 May 31
3068	41 05	70 48	20 Apr	41 21	70 27	12 May 31
3069	41 05	70 48	20 Apr	41 21	70 42	9 May 31
3070	41 05	70 48	20 Apr	41 21	70 30	7 May 31
	40 43	70 41	20 Apr	No returns		
	40 22	70 34	20 Apr	No returns		
3093	40 01	70 29	20 Apr	41 17	70 13	5 Aug 31
	39 57	69 24	21 Apr	No returns		
3113	40 18	68 52	21 Apr	40 37	73 16	23 Jul 31
3115	40 18	68 52	21 Apr	40 45	72 49	6 Sep 31
3124	40 08	68 49	21 Apr	70 40	23 40 E	5 Mar 33
	40 19	68 01	21 Apr	No returns		
	40 35	68 11	22 Apr	No returns		
3151	41 01	68 27	22 Apr	41 35	70 39	30 Jul 31
3164	41 16	67 55	22 Apr	41 21	70 30	5 Aug 31
3168	41 16	67 55	22 Apr	41 21	70 30	6 Aug 31
3169	41 16	67 55	22 Apr	40 54	72 20	21 Jul 31
3179	40 49	67 39	22 Apr	40 35	73 50	10 Jul 31
3185	40 30	67 24	22 Apr	60 20	01 25	25 Nov 32

	Released			Recovered		
Bottle	Lat	Long	Date	Lat	Long	Date
	40 23	67 18	23 Apr	No returns		
3207	41 04	67 04	23 Apr	41 32	71 12	21 Jul 31
3209	41 04	67 04	23 Apr	45 10	64 46	20 Sep 31
3210	41 04	67 04	23 Apr	42 10	66 00	25 Jul 31
3211	41 29	67 17	23 Apr	41 19	70 49	28 Jul 31
3221	41 44	66 46	23 Apr	40 33	67 05	6 Jun 31
3233	41 17	66 26	24 Apr	59 00	05 20	14 Sep 32
3238	41 17	66 26	24 Apr	57 04	06 34	7 Nov 32
	41 05	66 17	24 Apr	No returns		
3256	41 33	65 52	25 Apr	54 28	08 28	30 Oct 32
	41 58	66 18	25 Apr	No returns		
3279	42 00.8	66 12	25 Apr	52 40	09 40	28 Sep 32*
3289	42 04	66 04.5	25 Apr	45 07	66 35	29 Jul 31*
3294	42 06	66 01.5	25 Apr	43 48	66 32	24 Jun 31*
3295	42 06	66 00	25 Apr	45 20	64 47	10 Aug 31*
3307	42 10.5	65 51	25 Apr	43 30	65 25	17 May 31*
3312	42 12	65 48	25 Apr	45 00	65 09	29 Sep 31*
3316	42 13	65 49	25 Apr	45 08	64 53	19 Sep 31*
3326	42 16	65 52	25 Apr	41 24	70 44	6 Aug 31*
3366	42 28.5	66 04.5	25 Apr	44 27	66 42	3 Aug 31*
	42 24	66 33	26 Apr	No returns		
3386	42 11	67 07	27 Apr	41 16	70 11	7 Sep 31
3390	42 11	67 07	27 Apr	41 32	69 54	16 Jul 31
3394	42 36	67 17	28 Apr	41 30	71 08	27 Sep 31
3406	42 23	68 00	28 Apr	43 39	65 06	31 Jul 31
3417	41 57	67 40	28 Apr	41 21	70 39	3 Aug 31
3430	41 45	68 12	28 Apr	41 18	70 16	25 Jan 33
	41 29	68 46	29 Apr	No returns		
3447	41 55	69 10	29 Apr	44 49	65 32	1 Oct 31

* Bottles seeded in string, 2 every 2 miles. Recoveries only listed.

10 bottles with drags released at each station.

	Released			Recovered		
Bottle	Lat	Long	Date	Lat	Long	Date
3459	41 05	70 48	26 May	40 04	74 03	10 Jul 31
3471	40 49	70 02	26 May	40 35	73 40	9 Jul 31
3476	40 49	70 02	26 May	40 40	73 04	28 Jun 31
3477	40 49	70 02	26 May	41 20	71 42	11 Jul 31
3478	40 49	70 02	26 May	41 19	70 49	27 Aug 31
3479	40 49	70 02	26 May	40 36	73 30	11 Jul 31
3489	40 26	69 39	26 May	40 35	73 45	20 Jul 31
3491	39 57	69 23	27 May	38 30	28 45	1 Jun 32
3508	40 08	68 47	27 May	41 16.5	70 13	29 Jul 31
	40 19	68 51	27 May	No returns		
	40 45	69 08	27 May	No returns		
3531	41 15	69 23	27 May	41 39	70 00	4 Aug 31
3539	41 15	69 23	27 May	44 14	66 24	30 Aug 31
3540	41 15	69 23	27 May	41 15	72 00	7 Jul 31
3542	41 42	69 40	28 May	41 29	71 10	14 Aug 31
3545	41 42	69 40	28 May	41 31	69 44	30 May 31
3546	41 42	69 40	28 May	41 02	71 56	12 Jul 31
3548	41 42	69 40	28 May	41 21	70 30	7 Aug 31
3560	42 06	69 54	28 May	41 30	71 06	14 Aug 31
3561	41 58.5	70 21	28 May	41 15	72 00	20 Jul 31
3562	41 58.5	70 21	28 May	41 21	70 27	28 Jun 31
3563	41 58.5	70 21	28 May	41 51	69 58	7 Jun 31
3567	41 58.5	70 21	28 May	41 55	69 58	14 Jun 31
3570	41 58.5	70 21	28 May	40 57	71 57	3 Jul 31
3571	42 16	70 21	28 May	41 51	69 57	13 Jun 31
3572	42 16	70 21	28 May	41 44	70 20	17 Jun 31
3573	42 16	70 21	28 May	41 54	69 57	14 Jun 31
3575	42 16	70 21	28 May	42 22	71 03	14 Jun 31
3576	42 16	70 21	28 May	42 05	70 10	14 Jun 31
3579	42 16	70 21	28 May	41 44	70 20	30 Jun 31
3580	42 16	70 21	28 May	42 01	70 00	12 Jun 31
	41 55	69 09	3 Jun	No returns		
	41 30	68 47	3 Jun	No returns		
3602	41 03	68 31	3 Jun	41 33	70 32	2 Aug 31
3603	41 03	68 31	3 Jun	41 21	70 30	4 Aug 31
3614	40 35	68 09	3 Jun	40 54	72 20	22 Jul 31
	40 20	68 03	3 Jun	No returns		
	40 31	67 24	4 Jun	No returns		

	Released			Recovered		
Bottle	Lat	Long	Date	Lat	Long	Date
3642	40 49	67 40	4 Jun	41 03	71 53	22 Jul 31
3645	40 49	67 40	4 Jun	54 12	10 00	30 Oct 32
3655	41 16	67 54	4 Jun	41 21	70 40	12 Jul 31
3664	41 29	67 20	4 Jun	41 17	70 16	4 Sep 31
3666	41 29	67 20	4 Jun	41 27	70 36	13 Aug 31
3668	41 29	67 20	4 Jun	41 17	70 16	15 Jul 31
3670	41 29	67 20	4 Jun	41 21	70 30	27 Jul 31
3672	41 04	67 02	4 Jun	41 19	70 48	24 Jul 31
3673	41 04	67 02	4 Jun	41 15	70 06	21 Jul 31
	41 09	66 16	5 Jun	No returns		
3695	41 18	66 26	5 Jun	41 17	69 58	27 Aug 31
3698	41 18	66 26	5 Jun	41 27	70 33	12 Aug 31
3699	41 18	66 26	5 Jun	55 23	07 25	20 Sep 32
3700	41 18	66 26	5 Jun	41 23	70 31	12 Aug 31
3701	41 44	66 44	5 Jun	41 21	70 42	23 Jul 31
3702	41 44	66 44	5 Jun	41 27	70 55.5	30 Jul 31
3706	41 44	66 44	5 Jun	41 35	70 39	30 Jul 31
3707	41 44	66 44	5 Jun	41 16	70 11	29 Jul 31
3712	41 40	65 57	5 Jun	41 30	71 06	30 Jul 31
3726	41 59	66 10	5 Jun	41 21	70 30	5 Aug 31
3727	41 59	66 10	5 Jun	41 19	70 49	27 Aug 31
3734	42 13	65 47	6 Jun	48 39	04 13	25 May 33
	42 31	66 08	6 Jun	No returns		
3759	42 22	66 29	6 Jun	44 ?	66 ?	15 Apr 31
3761	42 10	67 04	6 Jun	44 52	65 24	9 Oct 31
3763	42 10	67 04	6 Jun	44 52	65 27	13 Oct 31
	42 34	67 18	7 Jun	No returns		
	42 23	67 54	7 Jun	No returns		
3792	41 44	68 13	7 Jun	44 30	63 48	17 Sep 31
3798	41 44	68 13	7 Jun	41 17	70 14	30 Aug 31
	42 10	68 33	7 Jun	No returns		

ALBATROSS II 4-18 April, 1932

From 5 to 20 bottles with drags per station and in strings of 2 bottles every 2 miles.

	Released			Recovered			
Bottle	Lat	Long	Date	Lat	Long	Date	
3884	41 05	70 48	5 Apr	41 21	70 32	28 Jun 32	
3885	41 05	70 48	5 Apr	41 10	71 33	21 Aug 54	
	40 41	70 41	5 Apr	No returns			
	40 46	70 06	5 Apr	No returns			
3908	40 31	69 46	6 Apr	56 30	06 58	28 Aug 33	
3910	40 31	69 46	6 Apr	52 15	06 47	25 Jan 34	
	40 08	69 34	6 Apr	No returns			
	39 57	69 25	6 Apr	No returns			
	40 08	68 45	6 Apr	No returns			
	39 55	68 35	6 Apr	No returns			
3976	40 57	68 27	7 Apr	41 16	70 12	10 Jul 32	
3980	40 57	68 27	7 Apr	41 14	70 07	8 Aug 32	
3984	40 55	68 25	7 Apr	41 16	70 12	2 Aug 32	*
3989	40 50	68 22	7 Apr	38 25	28 20	8 Feb 33	*
4010	40 35	68 12	7 Apr	58 10	06 20	11 Mar 33	
	40 44	69 08	7 Apr	No returns			
	40 22	68 53	7 Apr	No returns			
	40 23	68 03	7 Apr	No returns			
	40 18	67 13	7 Apr	No returns			
4037	40 45	67 31	8 Apr	56 30	06 58	18 Apr 33	
4038	40 45	67 31	8 Apr	54 08	10 12	8 Aug 33	
4039	40 45	67 31	8 Apr	41 26	70 53	18 Aug 32	
4051	41 30	67 07	8 Apr	22 25	74 00	12 Feb 40	
	41 10	67 47	8 Apr	No returns			
	41 04	66 43	8 Apr	No returns			
	40 30	67 20	8 Apr	No returns			
4084	41 08	66 14	9 Apr	57 25	07 25	7 Aug 35	
4099	41 43	65 50	9 Apr	52 40	09 40	21 Jun 33	
4103	41 43	65 50	9 Apr	26 18	77 00	27 Mar 33	
4105	41 43	65 50	9 Apr	53 55	10 05	10 Jan 34	
	41 24	66 24	9 Apr	No returns			
	40 51	66 45	9 Apr	No returns			
	40 52	66 07	9 Apr	No returns			
4109	41 49	66 43	10 Apr	56 30	06 58	18 Apr 33	
4111	41 49	66 43	10 Apr	48 40	01 30	5 Aug 33	
4115	41 49	66 43	10 Apr	47 17	55 19	11 Oct 32	
4117	41 58	66 21	10 Apr	52 52	09 30	14 Aug 33	

	Released			Recovered			
Bottle	Lat	Long	Date	Lat	Long	Date	
4129	42 03	66 09	10 Apr	55 08	08 08	3 Oct 33	*
4144	42 10	65 52.5	10 Apr	45 36	64 47	9 Jul 32	*
4155	42 16	65 42	10 Apr	45 05	66 39	9 Jul 32	*
4156	42 16	65 42	10 Apr	70 35	23 55 E	25 Jan 34	*
4157	42 17	65 40	10 Apr	44 26.5	67 36	27 Jul 32	*
4163	42 20	65 32.5	10 Apr	60 00	01 30	7 Oct 33	*
4180	42 27	65 15	11 Apr	51 28	09 35	20 May 33	*
4181	42 28	65 18	11 Apr	44 20	66 12	24 Oct 32	*
4200	42 38.5	65 42	11 Apr	44 32	63 56	26 Dec 32	*
4201	42 39.5	65 45.5	11 Apr	45 01	66 50	28 Aug 32	*
4203	42 41	65 48	11 Apr	44 58	66 58	8 Aug 32	*
4210	42 42	65 56	11 Apr	47 08	55 04	20 Sep 32	*
4218	42 34	66 10.5	11 Apr	43 54	66 19	12 May 32	*
4219	42 32	66 13	11 Apr	45 05	66 39	6 Aug 32	*
4222	42 31	66 31	11 Apr	43 29	65 49	29 Apr 32	*
4232	42 22	68 31	11 Apr	44 36.5	66 50.5	22 Aug 32	*
4235	42 21	66 40	11 Apr	43 45	66 27	10 Jun 32	*
4240	42 20	66 43	11 Apr	54 15	08 45	1 Jun 33	*
4243	42 18	66 48	11 Apr	45 07	66 35	7 Jul 32	*
4248	42 16	66 53	11 Apr	44 56	67 10	17 Sep 32	*
4259	42 33	67 29	11 Apr	57 24	07 23	6 Aug 33	
4265	42 33	67 29	11 Apr	44 50	62 30	21 Aug 32	
4273	42 22	68 00	12 Apr	41 20	70 44	10 Jul 32	
4280	42 22	68 00	12 Apr	45 08	66 21	29 Aug 32	
4282	42 22	68 00	12 Apr	28 00	16 00	28 May 34	
4298	42 02	67 46	12 Apr	53 30	10 00	30 Jul 33	
4300	42 02	67 46	12 Apr	54 57	08 30	22 Jul 33	
4302	42 02	67 46	12 Apr	58 50	05 20 E	15 Oct 33	
	42 17	70 25	15 Apr	No returns			
	42 07	69 56	15 Apr	No returns			
4326	42 17	69 23	16 Apr	41 56	66 52	18 Jul 32	At sea
	41 55	69 07	16 Apr	No returns			
4352	41 50	69 19	16 Apr	43 25	03 00 E	24 Mar 34	*
4356	41 48	69 24	16 Apr	66 00	13 00 E	18 Dec 33	*
4370	41 42	69 45	16 Apr	37 00	25 00	12 Oct 33	*
4373	41 42	69 45	16 Apr	41 20	70 44	10 Jul 32	*
4378	41 37.5	69 47	16 Apr	43 56	60 01	9 Jan 33	*
4381	41 35	69 43	16 Apr	41 29	70 45	17 Sep 34	*
4397	41 21	69 26	16 Apr	40 55.5	72 14	8 Oct 32	*
4406	41 16	69 19	16 Apr	47 32	55 57	26 Dec 32	*
4412	41 13	69 12	16 Apr	52 06	10 30	17 Jun 33	*
4419	41 10.7	69 04.5	16 Apr	41 21	70 42	17 Aug 32	*
4455	41 10	68 40	17 Apr	36 55	25 10	9 Oct 33	*
4473	41 25	68 49	17 Apr	55 15	06 40	11 Nov 33	*
4487	41 34	68 50	17 Apr	37 05	25 10	15 Jun 33	*

* Bottles seeded in string, 2 every 2 miles.

	Released			Recovered		
Bottle	Lat	Long	Date	Lat	Long	Date
4499	41 46	68 48	17 Apr	41 10	70 55	25 Aug 32 *
4504	41 50	68 45	17 Apr	52 33	09 58	14 Oct 33 *
4507	41 51	68 44	17 Apr	36 55	25 10	4 Dec 33 *
4509	41 50	68 38	17 Apr	55 38	06 12	31 Jul 33 *
4523	42 01	68 34	17 Apr	59 08	03 20	27 Mar 34 *
4547	42 21	67 59	18 Apr	46 48	56 25	23 Dec 32 *
4565	42 37	68 10	18 Apr	44 22.5	66 05	16 Jun 32 *
4574	42 30	69 39	18 Apr	43 41	66 07.8	2 Jun 32 *
4600	42 33	70 18	18 Apr	45 20	64 47	12 Sep 32 *
4602	42 28.3	70 24.8	18 Apr	44 25	64 08	4 Oct 32 *
4611	42 33	70 34	18 Apr	41 05	73 55	32 Mar 33 *
4612	42 33.3	70 36.4	18 Apr	42 01	70 12	11 May 32 *
4613	42 33.3	70 36.4	18 Apr	41 22	70 00	31 May 32 *
4614	42 33.9	70 39.4	18 Apr	42 01	70 12	24 Apr 32 *

* Bottles seeded in string, 2 every 2 miles.

Five to 10 bottles with drags released at each station and in strings of 2 bottles every 2 miles.

	Released			Recovered			
Bottle	Lat	Long	Date	Lat	Long	Date	
4636	41 39.5	69 50	19 Jun	41 39.4	69 59	18 Aug 33	*
4639	41 40	69 49	19 Jun	41 27	71 19	22 Jul 33	*
4649	41 43	69 45.5	19 Jun	35 16	75 31	27 Oct 33	*
4652	41 46	69 41	20 Jun	44 41	65 46	13 Sep 33	*
4656	41 50	69 33	20 Jun	21 30	71 10	9 Jan 37	*
4706	42 04	67 49	21 Jun	43 27	65 28	18 Aug 33	*
4713	42 27	68 03	20 Jun	44 34	67 22	9 Mar 34	*
4716	42 22	68 01	20 Jun	44 37	66 50	31 Jul 33	*
4718	42 20	67 59	20 Jun	44 15.5	66 21	2 Aug 33	*
4721	42 17	67 59	20 Jun	35 40	75 29	26 Oct 33	*
4722	42 13.5	67 55	21 Jun	41 21	70 46	19 Sep 33	*
4723	42 13.5	67 55	21 Jun	37 45	25 45	15 Jun 34	*
4724	42 10	67 52.5	21 Jun	45 10	66 20	7 Sep 33	*
	42 22	67 30	21 Jun	No returns			
4741	42 31	67 23	21 Jun	43 40	66 03	2 Apr 34	
4743	42 31	67 23	21 Jun	44 25	66 12	1 Sep 33	
4744	42 31	67 23	21 Jun	44 20	66 08	13 Sep 33	
4751	42 10	67 04	21 Jun	41 30	67 05	6 Jul 33	
4754	42 10	67 04	21 Jun	45 03	65 04	28 Oct 33	
4762	42 25	66 44	22 Jun	47 42	03 21	18 Jun 35	
4768	42 07	66 19	22 Jun	44 16	66 22	15 Nov 33	*
4770	42 10	66 16	22 Jun	43 54	64 45	27 Aug 33	*
4791	42 23.5	65 53	22 Jun	43 15	65 45	1 Aug 33	*
4798	42 29.5	65 49	22 Jun	44 52	65 27	22 Oct 33	*
4800	42 31	65 48.5	22 Jun	44 58	67 04	28 Aug 33	*
4801	42 31	65 48.5	22 Jun	42 05	70 09	21 Oct 33	*
4802	42 32	65 48	23 Jun	44 16	66 08	23 Jul 33	*
4804	42 33.5	65 47.5	22 Jun	44 52	65 27	1 Aug 33	*
4812	42 37	65 53.5	22 Jun	44 34	65 55	21 Aug 33	*
4814	42 37	65 53.5	22 Jun	48 00	04 00	14 Jan 35	*
4819	42 40	66 02	22 Jun	38 40	27 15	11 May 34	*
4824	42 46	65 57	22 Jun	43 30	65 30	21 Aug 33	*
4826	42 48	65 55	22 Jun	43 05	66 00	21 Jul 33	*
4828	42 50	65 53	23 Jun	45 05	66 28	25 Nov 33	*
4830	42 52	65 52	23 Jun	44 20	66 12	4 Nov 33	*
4832	42 55	65 51	23 Jun	42 20	66 50	10 Aug 33	*

	Released			Recovered			
Bottle	Lat	Long	Date	Lat	Long	Date	
4838	43 01	65 49	23 Jun	44 17	66 18	1 Aug 33	*
4839	43 01	65 49	23 Jun	51 28	09 23	31 Jan 37	*
4841	43 03	65 48	23 Jun	44 33	66 02	25 Jul 33	*
4842	43 05	65 47	23 Jun	44 40.5	65 48.5	14 Nov 33	*
4846	43 09	65 45.5	23 Jun	44 30	66 06	16 Oct 33	*
4850	43 15	65 43	23 Jun	44 26	66 00	7 Sep 33	*
4856	43 18.5	65 37.5	23 Jun	45 23	64 39	21 Aug 33	*
4857	43 18.5	65 37.5	23 Jun	44 36	65 58	13 Sep 33	*
4858	42 18	65 30	23 Jun	45 02	66 49	23 Aug 33	*
4862	42 14	65 31	23 Jun	44 56.5	65 17	31 Jul 33	*
4866	42 10	65 31	23 Jun	44 50	66 59	27 Aug 33	*
4867	42 10	65 31	23 Jun	43 17	65 46	21 Jul 33	*
4868	42 08	65 32	23 Jun	44 16	66 08	23 Jul 33	*
4870	42 08	65 32	23 Jun	29 15	13 27	12 Aug 35	*
4876	42 00	65 32	23 Jun	43 22	65 40	4 Aug 33	*
4877	42 00	65 32	23 Jun	37 45	25 45	11 Apr 35	*
4896	41 58.3	65 46.5	24 Jun	43 37	65 16	27 Aug 33	*
4912	41 32	65 55	24 Jun	40 46	72 45	26 Aug 33	
	41 39	66 08	24 Jun	No returns			
4926	41 39	66 46	24 Jun	43 39	65 08	28 Sep 33	
4927	41 39	66 46	24 Jun	42 05	66 55	1 Sep 33	
4936	41 30	67 07	25 Jun	41 35	70 51	22 Aug 33	
4944	41 19	66 39	25 Jun	41 31	71 19	1 Sep 33	
	41 03	66 25	25 Jun	No returns			
	40 48	66 44	25 Jun	No returns			
	40 53	66 21	25 Jun	No returns			
4986	40 56	66 59	26 Jun	40 41	73 08	24 Aug 33	
4988	40 56	66 59	26 Jun	40 47.5	72 39	24 Aug 33	
4990	40 56	66 59	26 Jun	41 16	70 11	1 Aug 33	
4992	40 56	66 59	26 Jun	41 15	70 10	31 Jul 33	
5004	40 38	67 52	26 Jun	41 20.5	70 49.5	8 Aug 33	
5006	40 38	67 52	26 Jun	41 11	70 55	25 Aug 33	At sea
5010	40 38	67 52	26 Jun	40 50	72 30	23 Aug 33	
	41 05	67 35	26 Jun	No returns			
	40 20	68 00	26 Jun	No returns			
5024	40 08	68 14	27 Jun	37 26	75 40	6 Sep 33	
5030	40 08	68 14	27 Jun	36 40	75 55	4 Jan 34	
5040	40 17.5	68 35.5	27 Jun	40 13	68 47	27 Jun 33	At sea *
5046	40 23	68 45	27 Jun	36 16	75 47	29 Oct 33	
5054	40 28.5	68 52	27 Jun	40 35	73 40	24 Aug 33	
5056	40 30.5	68 53.5	27 Jun	40 36	73 30	4 Sep 33	*

	Released			Recovered			
Bottle	Lat	Long	Date	Lat	Long	Date	
5058	40 32	68 56	27 Jun	41 20	70 02	4 Sep 33	*
5070	40 43	69 05	27 Jun	41 28	71 10	11 Aug 33	*
5072	40 44	69 05.5	27 Jun	42 25	65 50	25 Jul 33	*
5079	40 51	69 05	27 Jun	40 36	73 26	25 Aug 33	*
5087	40 59	69 04	27 Jun	41 14	68 45	16 Aug 33	*
5090	41 03	69 04	27 Jun	44 30	66 00	11 Sep 33	*
5096	41 09	69 04	27 Jun	41 21	70 30	31 Jul 33	*
5098	41 09	69 04	27 Jun	40 48	72 37	24 Aug 33	
5099	41 09	69 04	27 Jun	50 00	05 15	26 Dec 34	
5102	41 09	69 04	27 Jun	40 58	72 08	24 Aug 33	
5111	41 25	68 36	27 Jun	44 33	66 02	21 Oct 33	
	42 00	68 22	28 Jun	No returns			
	41 45	68 15	28 Jun	No returns			
5138	41 50	69 07	28 Jun	44 17.5	66 08	12 Sep 33	
5140	41 50	69 07	28 Jun	44 00	66 25	19 Oct 33	
5147	41 38	69 20	28 Jun	45 20.5	64 47	19 Oct 33	
5149	41 38	69 20	28 Jun	36 55	25 10	18 Nov 34	
5154	41 33	69 38	28 Jun	41 30	71 05	22 Jul 33	
5156	41 33	69 38	28 Jun	41 29	71 09	23 Jul 33	
5157	41 33	69 38	28 Jun	36 55	25 10	7 Nov 34	
5158	41 33	69 38	28 Jun	41 29	71 09	23 Jul 33	
5159	41 33	69 38	28 Jun	40 54	72 20	26 Aug 33	
5160	41 33	69 38	28 Jun	41 24	70 57	24 Jul 33	
5164	41 35	69 51	23 Jun	41 20	70 00	5 Jul 33	*
5166	41 32	69 59	28 Jun	41 18	69 58.5	5 Jul 33	*

* Bottles seeded in string, 2 every 2 miles.

ATLANTIS, Cruise 28 27 April-13 May, 1934

Five to 15 bottles released at stations. Others in strings of 2 bottles every 2 miles. Odd numbers with drags, even numbers without drags.

	Released			Recovered			
Bottle	Lat	Long	Date	Lat	Long	Date	
5173	41 42	69 49	27 Apr	38 35	08 55	23 Feb 36	*
5178	41 45	69 41	27 Apr	24 20	77 45	15 Dec 37	*
5180	41 46	69 39	27 Apr	32 20	64 44	6 Jan 35	*
5187	41 48	69 32	27 Apr	40 39	73 11	19 Sep 34	*
5189	41 49	69 29	27 Apr	41 01	72 00	23 Sep 34	*
5200	41 53	69 15	27 Apr	44 22.5	67 52.5	5 Oct 35	*
5202	41 54	69 13	27 Apr	43 42	69 50	11 Aug 34	*
5223	41 49	68 23	23 Apr	50 25	05 05	29 Jul 35	*
	41 50	68 17	28 Apr	No returns			
5231	41 52	68 12	28 Apr	44 05	66 10	3 Sep 34	*
5233	42 00	68 20	28 Apr	40 09	74 01.5	14 Sep 34	
5235	42 00	68 20	28 Apr	53 00	10 00	5 Jul 35	
5236	42 00	68 20	28 Apr	42 52.5	70 49	16 Sep 34	
5239	42 04	68 28	28 Apr	44 50	65 30	18 Jul 34	
5242	42 04	68 28	28 Apr	44 02	68 36	19 Jul 34	
5244	42 04	68 28	28 Apr	53 00	10 00	23 Aug 35	
5264	42 08	67 46	29 Apr	44 24	66 12	30 Jun 34	*
5270	42 04	67 43	29 Apr	43 50	66 18	30 Jun 34	*
52 72	41 57	67 36	29 Apr	43 55	69 13	11 Aug 34	*
5280	41 57	67 36	29 Apr	58 55	03 10	3 Dec 35	*
5287	42 18	67 06	29 Apr	45 20	64 42	6 Aug 34	*
5293	42 15	67 04	29 Apr	55 00	08 35	27 Mar 35	*
5306	41 57	66 53	30 Apr	43 37	65 16	27 May 34	*
5309	41 57	66 53	30 Apr	56 30	06 58	4 Sep 35	*
5328	42 06	66 40	30 Apr	43 16	64 20	24 May 34	
5332	42 12	66 20	30 Apr	43 22	65 30	24 May 34	
5335	42 12	66 20	30 Apr	41 33	69 59	6 Oct 34	
5336	42 12	66 20	30 Apr	43 31	65 21	23 May 34	
5337	42 12	66 20	30 Apr	21 30	71 30	26 Nov 41	
5339	42 12	66 20	30 Apr	44 16	66 22	3 Jul 34	
5342	42 16	66 24	30 Apr	44 30.5	65 55	5 Jul 34	
5344	42 16	66 24	30 Apr	43 04	66 00	18 Jun 34	
5346	42 16	66 24	30 Apr	44 47	66 45	2 Aug 34	
5347	42 16	66 24	30 Apr	44 52	65 27	23 Jul 34	
5349	42 16	66 17	30 Apr	43 45	69 19	30 Oct 34	
5358	42 23	66 17	30 Apr	45 21	64 51	15 Aug 34	

* Bottles seeded in string, 2 every 2 miles.

	Released			Recovered			
Bottle	Lat	Long	Date	Lat	Long	Date	
5368	42 30	66 15	30 Apr	47 35	56 00	8 Nov 34	
5374	42 38	66 08	30 Apr	42 58	66 18	1 May 34	At sea
5376	42 38	66 08	30 Apr	63 30	21 00	4 Aug 35	
5377	42 38	66 08	30 Apr	56 00	08 00	19 Oct 36	
5384	42 44	66 03	1 May	43 23	66 16	27 Jun 34	At sea
5385	42 44	66 03	1 May	42 51	66 15	1 May 34	At sea
5386	42 44	66 03	1 May	44 15	68 14	1 Jul 34	
5388	42 44	66 03	1 May	43 33	64 52	19 May 34	At sea
5389	42 44	66 03	1 May	43 17	65 45	23 Jul 34	At sea
5404	43 10	65 42	1 May	43 56	59 55	7 Sep 34	
	42 56	65 54	1 May	No returns			
5410	42 30	65 02	1 May	22 47	74 10	18 May 37	
5414	42 30	65 02	1 May	43 41	66 02	27 Jun 34	
5420	42 26	64 41	2 May	44 20	66 16	16 Jun 34	
5433	42 26	64 41	2 May	58 00	07 00 E	30 Jan 36	
5444	42 25	64 17	2 May	50 35	01 25	16 Nov 35	
5449	42 25	64 17	2 May	18 00	63 00	25 Feb 37	
5456	42 47	64 18	2 May	23 23	75 00	1 Jan 37	
5457	42 47	64 18	2 May	43 57	59 45	11 Oct 34	
5460	42 47	64 18	2 May	45 10	66 20	23 Aug 34	
5462	42 47	64 18	2 May	39 42	31 05	10 Aug 35	
5465	42 58	64 31	2 May	45 14	66 03	23 Aug 34	
5467	42 58	64 31	2 May	59 05	02 30	1 Oct 35	
5468	42 58	64 31	2 May	43 59	59 45	11 Oct 34	
5470	42 58	64 31	2 May	44 15	66 20	7 Jul 34	
5478	42 58	64 31	2 May	43 56	59 55	7 Sep 34	
5482	43 10	64 45	2 May	44 30	66 10	3 Jul 34	
5485	43 10	64 45	2 May	44 12	66 10	11 Nov 34	
5487	43 10	64 45	2 May	45 20	64 47	14 Aug 34	
5496	43 23	64 57	3 May	53 55	10 00	19 Oct 35	
5504	43 35	65 10	3 May	43 59	64 40	30 Sep 34	
5507	43 35	65 10	3 May	60 22	07 42	5 Feb 36	
5517	42 35	65 25	5 May	57 12	07 25	30 Sep 35	
5523	42 21	65 25	5 May	45 21	64 51	12 Aug 34	
5527	42 21	65 25	5 May	45 27	64 51	19 Aug 34	
5528	42 21	65 25	5 May	44 52	67 01	6 Sep 34	
5533	42 09	65 26	5 May	56 35	06 40	11 Aug 35	
5537	42 09	65 26	5 May	43 57	59 45	11 Sep 34	
5544	42 00	65 26	5 May	44 55	67 02	11 Aug 34	
5559	42 07	65 47	6 May	63 30	20 00	12 Feb 36	
5562	42 00	65 53	6 May	38 30	28 45	23 Jan 35	
5565	42 00	65 53	6 May	25 00	76 10	31 Jan 37	
	41 50	66 11	6 May	No returns			
5587	41 38	65 52	6 May	59 12	02 49	1 Jul 36	
5588	41 38	65 52	6 May	44 35	01 14	25 Sep 35	

	Released			Recovered		
Bottle	Lat	Long	Date	Lat	Long	Date
5604	41 13	66 16	8 May	55 00	08 30	12 Apr 35
5610	41 20	66 32	8 May	54 07	10 05	11 Jul 35
5617	41 31	66 45	8 May	23 30	75 45	5 Jan 38
5620	41 31	66 45	8 May	41 21	70 36	24 Jul 34
5621	41 33	66 45	8 May	39 41	74 09	4 Sep 34
	41 27	67 18	9 May	No returns		
5649	41 01	67 03	9 May	55 35	06 20	1 Sep 35
5653	41 01	67 03	9 May	40 47.5	72 39	16 Sep 34
	40 36	67 05	10 May	No returns		
5669	40 49	67 36	10 May	38 07	75 11	22 Oct 34
	40 59	67 46	10 May	No returns		
5693	41 09	67 57	10 May	69 00	15 00 E	6 Mar 36
5701	40 57	68 27	10 May	38 40	27 15	1 Aug 35
5710	40 47	69 00	10 May	44 25	66 03	19 Jul 34
5715	40 47	69 00	10 May	44 00	66 10	8 Nov 34
5727	40 30	68 40	11 May	51 45	10 07	11 Apr 35
5737	40 30	68 40	11 May	36 30	75 52	25 Sep 34
5742	41 05	69 18	11 May	40 51	72 36	27 Sep 34
5744	41 05	69 18	11 May	40 41	73 00	21 Sep 34
5747	41 05	69 18	11 May	40 38	73 14	18 Sep 34
	41 13	69 04	12 May	No returns		
	41 42	68 32	12 May	No returns		
5761	41 20	68 40	12 May	45 16	65 49	23 Aug 34
5762	41 20	68 40	12 May	45 30	60 56	10 Sep 34
5768	41 20	68 40	12 May	44 52	65 27	21 Jul 34
5772	41 34	68 26	12 May	44 25	66 02	4 Jul 34
5790	41 25	69 28	13 May	54 15	08 30	27 Jul 35
5798	41 25	69 28	13 May	40 49	72 30	13 Oct 34

ALBATROSS III Cruise 46 19 March-2 April 1953

12 bottles released at each station for all cruises below.

N = No ballast B = Ballasted with sand

		Released			Recovered		
Station	Bottle	Lat	Long	Date	Lat	Long	Date
1	12102N	41 01	71 01	19 Mar	41 19.8	71 44	23 May 53
1	12107B	41 01	71 01	19 Mar	35 24	76 00	8 Aug 56
2		40 31	71 01	19 Mar	No returns		
3		40 00	71 00	19 Mar	No returns		
4		40 00	69 57	20 Mar	No returns		
5		39 59	69 00	20 Mar	No returns		
6		40 01	68 27	20 Mar	No returns		
7		40 27	68 03	20 Mar	No returns		
8		41 00	67 31	20 Mar	No returns		
9		41 18	67 15	21 Mar	No returns		
10		41 46	67 12	21 Mar	No returns		
11		42 14	67 14	21 Mar	No returns		
12		43 01	67 16	21 Mar	No returns		
13	12252N	43 40	67 13	21 Mar	44 15	68 41	30 May 53
14	12268N	43 38	68 59	22 Mar	43 32.5	70 14	8 Jun 53
15	12273B	43 30	69 34	22 Mar	41 48.3	69 59.3	20 Dec 54
15	12275B	43 30	69 34	22 Mar	43 17	70 34	24 Apr 53
15	12276N	43 30	69 34	22 Mar	43 48.5	69 40.5	18 Apr 53
15	12280N	43 30	69 34	22 Mar	43 47	69 40	29 Mar 53
16	12281B	43 01	70 31	22 Mar	42 17	70 52	3 Apr 53
16	12283B	43 01	70 31	22 Mar	41 59.5	70 04.8	18 Apr 53
16	12286N	43 01	70 31	22 Mar	42 56.5	70 47.6	28 Mar 53
16	12288N	43 01	70 31	22 Mar	42 56.5	70 47.6	9 Apr 53
16	12292B	43 01	70 31	22 Mar	42 54	70 48.7	1 Apr 53
17	12296N	43 00	70 00	22 Mar	42 39	70 41	4 Apr 53
17	12297B	43 00	70 00	22 Mar	41 44.3	70 37.3	20 Apr 53
17	12300N	43 00	70 00	22 Mar	42 39	70 41	2 Apr 53
17	12302N	43 00	70 00	22 Mar	42 30	90 50.5	6 Apr 53
17	12303B	43 00	70 00	22 Mar	41 27	70 56	7 Aug 53
18		43 00	69 00	22 Mar	No returns		
19		43 00	68 00	22 Mar	No returns		

		Released			Recovered		
Station	Bottle	Lat	Long	Date	Lat	Long	Date
20	12335B	43 01	67 01	23 Mar	45 18.5	64 47.5	19 Apr 55
21	12341B	43 01	66 00	23 Mar	44 31	65 54.5	17 Jul 53
21	12342N	43 01	66 00	23 Mar	44 23.2	66 04	16 Sep 53
21	12346N	43 01	66 00	23 Mar	43 50	69 30	21 Dec 53
22	12354N	42 59	65 00	23 Mar	44 38.3	65 53	29 Jul 53
22	12357B	42 59	65 00	23 Mar	53 10	09 16	21 Dec 54
22	12358N	42 59	65 00	23 Mar	41 49	69 57	7 Nov 53
22	12359B	42 59	65 00	23 Mar	44 40	66 45.3	6 Oct 53
23	12366N	42 15	64 57	23 Mar	44 23.2	66 04	30 Apr 53
24	12378N	42 10	66 02	23 Mar	45 04	66 28	29 Jul 53
25	12398N	42 16	67 01	24 Mar	45 14.5	66 05	16 Sep 53
26		42 18	68 02	24 Mar	No returns		
27		42 16	69 00	24 Mar	No returns		
28	12425B	42 14	69 52	24 Mar	41 23.5	70 03	15 Aug 53
28	12428N	42 14	69 52	24 Mar	42 04.2	70 14.4	3 Apr 53
28	12430N	42 14	69 52	24 Mar	42 05	70 12.4	24 May 53
28	12432N	42 14	69 52	24 Mar	42 04.9	70 11.3	5 Apr 53
28	12434N	42 14	69 52	24 Mar	42 04.6	70 09.4	31 Mar 53
28	12436N	42 14	69 52	24 Mar	42 04.9	70 11.3	31 Mar 53
29		42 15	70 02	25 Mar	No returns		
30	12452N	41 47	69 44.5	25 Mar	41 57.1	69 59.2	28 Mar 53
30	12456N	41 47	69 44.5	25 Mar	41 57.1	69 59.2	28 Mar 53
30	12460N	41 47	69 44.5	25 Mar	41 59.6	70 00.9	2 Apr 53
31		41 46	69 00	25 Mar	No returns		
32		41 47	68 30	25 Mar	No returns		
33		41 55	68 00	25 Mar	No returns		
34		41 47	66 58	27 Mar	No returns		
35		41 46	66 02	27 Mar	No returns		
36		41 43	65 45	27 Mar	No returns		
37		41 19	66 11.5	27 Mar	No returns		
38		41 17	67 00	27 Mar	No returns		
39	12561B	41 15	68 01	28 Mar	35 46.5	75 18	5 Jan 55 *
40		41 16	68 59	28 Mar	No returns		
41		41 17.5	69 19.5	28 Mar	No returns		
42		40 35	68 51	29 Mar	No returns		
43		40 46	67 59	29 Mar	No returns		
44		40 47	67 30	29 Mar	No returns		
45		40 46	67 00	29 Mar	No returns		
46		40 45	66 33.5	29 Mar	No returns		
47		41 31	66 29	29 Mar	No returns		
48		42 15	66 16	30 Mar	No returns		
49	12682N	42 39	66 13	30 Mar	45 22	64 20.5	19 Sep 53
50	12692N	42 41	67 00	30 Mar	44 17	66 18	15 Aug 53

*Bottle recovered from bottom

		Released			Recovered		
Station	Bottle	Lat	Long	Date	Lat	Long	Date
50	12698N	42 41	67 00	30 Mar	45 05	66 28	9 Jul 53
51		42 46	68 00	30 Mar	No returns		
52		42 40	69 00	30 Mar	No returns		
53	12726N	42 38	69 56	31 Mar	41 58.3	70 00	11 Apr 53
54	12737B	42 37	70 24	31 Mar	41 59.5	70 04.5	2 Mar 55
54	12740N	42 37	70 24	31 Mar	41 54.7	69 58.1	11 Apr 53
54	12742N	42 37	70 24	31 Mar	41 54.7	69 58.1	11 Apr 53
54	12743B	42 37	70 24	31 Mar	42 03.6	70 10	22 Apr 53
54	12745B	42 37	70 24	31 Mar	42 02	70 05.7	25 Apr 53
54	12746N	42 37	70 24	31 Mar	41 57.5	69 59.5	11 Apr 53
54	12748N	42 37	70 24	31 Mar	41 54.7	69 58.1	11 Apr 53
55		42 00	69 53	31 Mar	No returns		
56		42 00.5	69 00.5	31 Mar	No returns		
57		42 00	68 00	31 Mar	No returns		
58		42 02	67 06	31 Mar	No returns		
59		41 59	66 00	1 Apr	No returns		
60		41 30	65 49	1 Apr	No returns		
61		41 29	66 22	1 Apr	No returns		
62		41 25.5	67 81	1 Apr	No returns		
63	12852N	41 03	67 58	1 Apr	43 35	60 00	21 Jul 53
64	12862N	40 50	69 00	1 Apr	36 03.3	75 41	15 Oct 53
65	12872N	40 36	69 41	2 Apr	40 57.7	72 08.6	8 Aug 53
66	12888N	40 55	70 16	2 Apr	41 26.1	70 42.1	1 Jul 53
66	12892N	40 55	70 16	2 Apr	41 19	70 49	14 Jul 53
67	12898N	41 12	70 42	2 Apr	41 17	70 14.5	10 May 53
67	12902N	41 12	70 42	2 Apr	41 20.7	70 00.5	3 May 53
67	12904N	41 12	70 42	2 Apr	41 19	70 19.1	28 Jun 53

ALBATROSS III Cruise 48 24 April-8 May 1953

		Released			Recovered		
Station	Bottle	Lat	Long	Date	Lat	Long	Date
1	12914N	41 16.8	71 00	24 Apr	41 25	70 57	24 May 53
1	12916N	41 16.8	71 00	24 Apr	41 23	70 43	30 Apr 53
2	12920N	41 01.5	71 00.5	24 Apr	41 21.8	71 37	24 May 53
3		40 29	70 59.5	24 Apr	No returns		
4		39 59	70 58.5	25 Apr	No returns		
5		40 00	70 00	25 Apr	No returns		
6		40 00.5	69 00	25 Apr	No returns		
7		40 00	68 30	25 Apr	No returns		
8		40 30	68 00	25 Apr	No returns		
9		41 00	67 30	25 Apr	No returns		
10		41 15	67 16	25 Apr	No returns		
11		41 45	67 13	26 Apr	No returns		
12	13041B	42 15.7	67 15	26 Apr	45 19.8	64 41.8	13 Sep 53
13	13050N	42 58.5	67 15.5	26 Apr	45 06	66 24	20 Sep 53
13	13060N	42 58.5	67 15.5	26 Apr	45 02.3	66 53.5	11 Aug 53
14	13070N	43 40	67 15	26 Apr	43 51.7	68 53.1	17 May 53
14	13072N	43 40	67 15	26 Apr	45 22	64 20	27 Sep 53
15	13075B	43 40	68 00	26 Apr	43 47	66 09	10 Apr 54
16	13092N	43 40	69 00	26 Apr	43 00.3	70 36	2 Jun 53
17	13098N	43 20	69 40	27 Apr	43 03.3	70 42.9	25 May 53
18	13110N	43 00	70 33.6	27 Apr	42 04	70 14.5	16 May 53
18	13113B	43 00	70 33.6	27 Apr	41 21.8	71 37	10 Aug 53
19	13128N	43 00.5	70 00	27 Apr	44 34.3	65 55	6 Sep 53
19	13132N	43 00.5	70 00	27 Apr	53 10	09 14	27 Jul 54
20	13134N	42 59	69 00	27 Apr	45 05	66 25	4 Oct 53
20	13142N	42 59	69 00	27 Apr	44 55	65 19	3 Dec 53
21	13152N	43 00	68 00	27 Apr	44 15.5	66 20.2	22 Aug 53
22		43 00	67 00	27 Apr	No returns		
23	13172N	43 02	66 00	28 Apr	44 22.7	66 04.5	19 Jul 53
23	13179B	43 02	66 00	28 Apr	44 14.5	66 22.5	9 Sep 53
24	13192N	43 02	65 01	28 Apr	44 46.3	66 45	24 Jul 53
25		42 15	64 55	28 Apr	No returns		
26		42 14	66 00	28 Apr	No returns		
27		42 15	67 00	29 Apr	No returns		
28		42 13	68 00	29 Apr	No returns		
29		42 12	68 59.5	29 Apr	No returns		
30	13254N	42 13	70 00	29 Apr	42 05	70 12.5	17 May 53
30	13256N	42 13	70 00	29 Apr	42 04.2	70 14.4	3 May 53

		Released			Recovered			
Station	Bottle	Lat	Long	Date	Lat	Long	Date	
30	13258N	42 13	70 00	29 Apr	42 03	70 04.4	3 May 53	
30	13260N	42 13	70 00	29 Apr	42 02.8	70 04	3 May 53	
30	13626N	42 13	70 00	29 Apr	42 04.9	70 12.4	3 May 53	
30	13264N	42 13	70 00	29 Apr	42 02	70 04.4	3 May 53	
31	13266N	42 14.5	70 34	29 Apr	42 29	70 50	9 May 53	
31	13268N	42 14.5	70 34	29 Apr	42 32.7	70 52.4	11 May 53	
31	13274N	42 14.5	70 34	29 Apr	42 32.7	70 52.4	10 May 53	
32	13280N	42 06	69 57	30 Apr	42 03	70 04.4	3 May 53	
32	13282N	42 06	69 57	30 Apr	42 03	70 04.4	3 May 53	
32	13283B	42 06	69 57	30 Apr	41 51.7	69 57	21 Jul 53	
32	13284N	42 06	69 57	30 Apr	42 03	70 04.4	3 May 53	
32	13286N	42 06	69 57	30 Apr	42 05	70 11.5	19 May 53	
32	13288N	42 06	69 57	30 Apr	42 03	70 04.4	3 May 53	
32	13290N	42 06	69 57	30 Apr	42 04.7	70 09.5	3 May 53	
33	13291B	41 44.2	69 50.2	30 Apr	41 44	69 57	3 May 53	
33	13292N	41 44.2	69 50.2	30 Apr	41 46.8	69 56	9 May 53	
33	13293B	41 44.2	69 50.2	30 Apr	41 18	69 58.5	17 May 53	
33	13294N	41 44.2	69 50.2	30 Apr	41 44.8	69 55.7	2 May 53	
33	13296N	41 44.2	69 50.2	30 Apr	41 43.7	69 55.6	10 May 53	
33	13298N	41 44.2	69 50.2	30 Apr	41 43.7	69 55.6	9 May 53	
33	13300N	41 44.2	69 50.2	30 Apr	41 45.8	69 55.8	9 May 53	
34		41 45	69 00	30 Apr	No returns			
35		41 46	68 01	30 Apr	No returns			
36		41 46	67 00	30 Apr	No returns			
37	13339B	41 47	66 00	30 Apr	41 33.5	66 19.5	17 May 53	*
37	13341B	41 47	66 00	30 Apr	40 56.5	67 34.5	6 Jun 56	*
38		41 46	65 42	1 May	No returns			
39		41 15.5	65 59	1 May	No returns			
40		41 15.5	66 59	1 May	No returns			
41	12894N	41 15	68 00	1 May	41 18	70 17	24 Jun 53	
42	13402N	41 08.8	69 01.5	1 May	41 23.3	70 30.5	27 Jun 53	
42	13410N	41 08.8	69 01.5	1 May	41 16	70 12	1 Jul 53	
43		41 11	69 15	1 May	No returns			
44	13429B	40 46	69 12	2 May	41 21.3	70 49	14 Jun 53	
45	13438N	40 43	69 00	2 May	40 46	72 45	24 Jul 53	
45	13440N	40 43	69 00	2 May	41 22	70 30	15 Jun 53	
45	13442N	40 43	69 00	2 May	41 21	70 50.2	24 May 53	
45	13446N	40 43	69 00	2 May	41 19	70 49	30 Jan 53	
46	13450N	40 42	68 03	2 May	41 20.7	70 31	12 Jul 53	
46	13452N	40 42	68 03	2 May	41 34.5	70 27.5	27 Jun 53	
46	13454N	40 42	68 03	2 May	41 17.4	70 05.5	11 Jun 53	
46	13455B	40 42	68 03	2 May	41 29.3	71 18	9 Jul 53	
47		40 45	67 00	2 May	No returns			
48	13474N	40 47	66 30	2 May	45 22	64 24.3	15 Sep 53	

* Bottle recovered from bottom

		Released			Recovered		
Station	Bottle	Lat	Long	Date	Lat	Long	Date
49		41 30	66 26.5	1 May	No returns		
50	13496N	42 15	66 17.5	1 May	45 06	66 38.4	14 Jul 53
50	13497B	42 15	66 17.5	1 May	44 26.5	66 00.5	9 Jan 53
50	13500N	42 15	66 17.5	1 May	44 26	66 10.5	16 Oct 53
50	13503B	42 15	66 17.5	1 May	44 41.5	65 47	16 Feb 54
51	13510N	43 19	66 01	1 May	56 40	06 28	5 Oct 54
51	13514N	43 19	66 01	1 May	44 22	66 25	15 Aug 54
51	13516N	43 19	66 01	1 May	45 07	66 29	25 Jul 53
52	13530N	43 21	67 00	3 May	45 32	64 41	12 Sep 53
53		43 20	67 57	3 May	No returns		
54	13546N	43 18	69 00	3 May	41 44.2	70 20	4 Jun 53
54	13550N	43 18	69 00	3 May	41 54	70 01	14 Aug 53
55	13566N	43 18	70 00	4 May	43 39	65 49.3	27 Feb 54
56	13568N	43 17	70 31	4 May	42 52.3	70 49	16 May 53
56	13570N	43 17	70 31	4 May	43 06	70 39.5	27 Jun 53
56	13571B	43 17	70 31	4 May	43 18.5	70 34	28 May 54
56	13572B	43 17	70 31	4 May	43 07.8	70 38.5	1 Dec 54
56	13573B	43 17	70 31	4 May	42 31	70 52	20 May 53
56	13576N	43 17	70 31	4 May	42 45	70 48	14 Jan 53
56	13578N	43 17	70 31	4 May	42 50.6	70 49	16 May 53
57	13579B	43 00	70 33	4 May	42 04	70 06.5	9 Jul 53
57	13581B	43 00	70 33	4 May	42 58.3	70 46	30 Oct 55
57	13586N	43 00	70 33	4 May	42 53.8	70 48.8	14 May 53
57	13587B	43 00	70 33	4 May	42 55	70 27	29 Jul 56 *
57	13588N	43 00	70 33	4 May	41 43.9	70 17.3	30 May 53
58	13594N	42 42	70 32.5	4 May	41 27	70 40	16 Aug 53
59		42 40	70 00	4 May	No returns		
60		42 40	69 00	4 May	No returns		
61	13638N	42 41.5	68 00	4 May	45 09	66 14	7 Dec 53
62		42 41	67 03	5 May	No returns		
63	13654N	42 42.5	65 57	5 May	44 23.7	66 12	10 Jan 53
63	13656N	42 42.5	65 57	5 May	45 02.5	66 53.5	22 Sep 53
63	13658N	42 42.5	65 57	5 May	44 20	66 07.7	6 Jul 53
63	13662N	42 42.5	65 57	5 May	44 33.8	65 50.8	2 Jul 53
64	13668N	42 30	65 00	5 May	45 22	64 23.5	8 Sep 53
64	13674N	42 30	65 00	5 May	45 20	64 47	20 Sep 53
65	13680N	42 00	65 00	5 May	45 20	64 47	4 Aug 53
66		42 00	65 59.5	5 May	No returns		
67		42 00	67 00	5 May	No returns		
68		42 01	68 00	6 May	No returns		
69		41 58	69 00	6 May	No returns		
70		41 54.5	69 42	6 May	No returns		
71		41 31	69 29	6 May	No returns		
72		41 33.5	69 02	6 May	No returns		
73		41 25.5	68 00	6 May	No returns		

* Bottle recovered from bottom

		Released			Recovered		
Station	Bottle	Lat	Long	Date	Lat	Long	Date
74	13783B	41 28.5	67 00	7 May	40 47	67 58	9 Aug 54
75		41 30	66 00	7 May	No returns		
76	13807B	41 04	67 00	7 May	40 31	68 47	28 Jan 54
76	13809B	41 04	67 00	7 May	38 47.7	75 10	19 May 55
77	13827B	40 46.5	67 45	7 May	40 46.6	68 06	29 May 53
78	13842N	40 31	68 13	7 May	37 53	75 25.7	7 May 55
79	13844N	40 28	69 00	8 May	41 39.3	70 07	29 Jun 53
79	13845B	40 28	69 00	8 May	41 38	70 14	7 Jul 53
79	13846N	40 28	69 00	8 May	41 27.7	71 21.8	18 Jun 53
79	13848N	40 28	69 00	8 May	41 31	70 39.5	28 Jun 53
79	13852N	40 28	69 00	8 May	41 14.5	70 06	13 Jun 53
79	13854N	40 28	69 00	8 May	41 31.5	70 40.3	31 Aug 54
80	13856N	40 24	70 00	8 May	40 49	72 33.7	14 Aug 53
81	13868N	41 10	70 20	8 May	41 20.8	70 39	10 May 53
81	13872N	41 10	70 20	8 May	41 20.8	70 39	16 May 53
81	13874N	41 10	70 20	8 May	41 20.7	70 40	9 Jun 53
81	13876N	41 10	70 20	8 May	41 21	70 46	13 Jun 53

ALBATROSS III Cruise 50 25 May-3 June, 1953

		Released			Recovered		
Station	Bottle	Lat	Long	Date	Lat	Long	Date
1	13885B	41 00	71 01	25 May	41 15.7	70 12.1	1 Jul 55 *
2		40 30	70 59	25 May	No returns		
3		39 50	71 00	26 May	No returns		
4		40 02.1	70 04.2	26 May	No returns		
5		40 24.5	69 00	26 May	No returns		
6		40 32	68 00	26 May	No returns		
7		40 53	67 00	26 May	No returns		
8		41 00	66 30	27 May	No returns		
9		41 59	66 34	27 May	No returns		
10	13990N	43 01.5	66 21	27 May	44 03	66 10	14 Jun 53
10	13992N	43 01.5	66 21	27 May	45 19.5	64 48	8 Jul 53
10	13994N	43 01.5	66 21	27 May	44 13.2	66 09	1 Aug 53
10	13998N	43 01.5	66 21	27 May	45 20	64 47	17 Aug 53
11	14002N	43 27	66 15	27 May	45 20	64 54	27 Jul 53
11	14004N	43 27	66 15	27 May	44 26	66 10.5	19 Oct 53
11	14006N	43 27	66 15	27 May	45 00	66 45	23 Nov 53
11	14008N	43 27	66 15	27 May	45 20	64 47	8 Aug 53
12	14012N	43 26.5	67 00	27 May	44 48	65 34	14 Jun 53
12	14013B	43 26.5	67 00	27 May	45 20	64 47	8 Sep 53
12	14022N	43 26.5	67 00	27 May	44 22.7	66 05	27 Dec 54
13	14024N	43 26.5	68 00	28 May	44 57	66 55	2 Sep 53
13	14026N	43 26.5	68 00	28 May	44 50	66 57	5 Dec 53
13	14034N	43 26.5	68 00	28 May	45 04.5	66 44	10 Jun 54
14	14036N	43 28	69 00	28 May	44 41	66 42	28 Oct 53
14	14038N	43 28	69 00	28 May	44 22	66 06	12 Dec 53
14	14040N	43 28	69 00	28 May	42 03	70 08	21 Nov 53
14	14041B	43 28	69 00	28 May	41 17	70 05	22 Feb 54
15	14048N	43 27	70 01	28 May	42 02.5	70 03.5	15 Jun 53
15	14053B	43 27	70 01	28 May	42 54.5	70 48.7	7 Jul 53
16	14066N	43 00	70 23	28 May	44 20	66 07.5	2 Oct 53
17		42 35	70 32	28 May	No returns		
18		42 10	70 00	29 May	No returns		
19		42 10	69 00	29 May	No returns		
20		42 08	68 00	29 May	No returns		
21		42 10	67 00	29 May	No returns		
22	14141B	42 08	66 10	29 May	41 52	66 10	25 Sep 53 *
22	14143B	42 08	66 10	29 May	40 52	67 24.5	4 Jul 56 *
23	14150N	42 35	66 10	29 May	45 22.5	64 23.6	13 Sep 53
23	14158N	42 35	66 10	29 May	45 19.5	64 48	25 Jul 53
23	14160N	42 35	66 10	29 May	45 22.5	64 25	4 Sep 53
24	14162N	42 35	65 00	30 May	43 57	60 00	13 Sep 53
25		42 03.5	65 29	30 May	No returns		
26		41 45	65 45.5	30 May	No returns		

* Bottle recovered from bottom

		Released			Recovered		
Station	Bottle	Lat	Long	Date	Lat	Long	Date
27		41 44	67 00	30 May	No returns		
28		41 46.5	68 07	30 May	No returns		
29		41 45	69 00	31 May	No returns		
30	14233B	41 41.5	69 48.5	31 May	40 58	70 14	16 Oct 56 *
31	14255B	41 21	69 28	31 May	39 59.5	69 19	4 Oct 56 *
31	14247B	41 21	69 28	31 May	40 46	70 35	1 Nov 55 *
32		41 25	69 03	31 May	No returns		
33	14277B	41 21	67 59	31 May	40 58	68 26	8 Jul 54 *
34		41 18	67 01.5	31 May	No returns		
35		41 20	66 11	1 Jun	No returns		
36		41 00	66 31	1 Jun	No returns		
37		40 29	67 02	1 Jun	No returns		
38		40 29	68 02	1 Jun	No returns		
39		40 28	68 58	1 Jun	No returns		
40		40 26.5	70 00	2 Jun	No returns		
41		40 24.5	70 57	2 Jun	No returns		
42	14379B	40 26.5	72 00	2 Jun	38 43	74 55	24 Sep 53
43		40 31	72 58.5	2 Jun	No returns		
44	14498N	40 47	72 09	2 Jun	40 37.3	73 18.4	18 Jun 53
44	14508N	40 47	72 09	2 Jun	41 04	71 51.6	10 Jun 53
45	14399B	40 59.5	71 27.5	2 Jun	41 07	71 30	31 Mar 54
46	14404N	41 00	70 50.5	3 Jun	41 24	70 27	5 Jul 53
46	14408N	41 00	70 50.5	3 Jun	41 19.5	70 49	9 Jul 53
46	14412N	41 00	70 50.5	3 Jun	41 23.8	70 30.3	14 Jun 53

* Bottle recovered from bottom

ALBATROSS III Cruise 57 21 Feb-3 March, 1955

		Released			Recovered		
Station	Bottle	Lat	Long	Date	Lat	Long	Date
1	16111B	41 17.5	71 00	21 Feb	41 20.6	70 47.1	30 Mar 55
2		41 00	71 01	21 Feb	No returns		
3		40 30	71 00	21 Feb	No returns		
4		40 00	71 00	21 Feb	No returns		
5		39 58.5	70 03	22 Feb	No returns		
6	16166N	40 00	69 02	22 Feb	32 21.5	64 40	4 Dec 55
7		40 00	68 00	22 Feb	No returns		
8	16185B	40 36	67 43	22 Feb	52 45	9 35	29 Aug 56
9		41 00	67 31	22 Feb	No returns		
10	16220N	41 30	67 08.5	23 Feb	40 01	74 03.3	15 Oct 55
11		42 02.5	66 50	23 Feb	No returns		
12	16238N	42 28	66 29	23 Feb	41 50	69 56.6	14 Jun 55
12	16239B	42 28	66 29	23 Feb	41 49	69 56.5	15 Oct 55
13		43 00	66 16	23 Feb	No returns		
14		43 18	66 03.5	23 Feb	No returns		
15		44 00	66 30	23 Feb	No returns		
16	16289B	43 55	67 03	23 Feb	44 22.2	66 05.2	23 Aug 55
17	16304N	43 47	68 00	24 Feb	41 30	71 02.6	23 Jul 55
18		43 44	69 00	24 Feb	No returns		
19	16320N	43 39	69 42	24 Feb	43 44.5	69 59.4	25 Aug 55
19	16323B	43 39	69 42	24 Feb	42 02	70 05.7	22 May 55
19	16324N	43 39	69 42	24 Feb	41 19.4	70 45.4	4 Jun 55
20	16331B	43 00	70 25	24 Feb	41 20.8	70 30	10 Jul 55
20	16340N	43 00	70 25	24 Feb	40 46.5	72 42.6	14 Aug 55
21	16344N	42 34.2	70 25	24 Feb	40 53	72 21	15 Aug 55
22	16362N	42 00	70 30	25 Feb	37 11.4	76 00	11 Oct 55
22	16364N	42 00	70 30	25 Feb	40 47.3	72 40	17 Aug 55
23		42 21	69 58	25 Feb	No returns		
24	16382N	42 39.5	69 59	25 Feb	41 20.7	70 40	20 Aug 55
25	16389B	43 00	69 56	25 Feb	36 02	75 40	26 Sep 55
25	16395B	43 00	69 56	25 Feb	41 48	69 56.3	10 May 55
26	16409B	42 57	68 59	25 Feb	42 02	70 10.1	7 May 55
27	16415B	42 45	68 01	25 Feb	41 23	70 02.2	5 Aug 55
28	16429B	42 43	67 00	25 Feb	42 18	70 53.8	20 Jul 55
29	16448N	42 43	66 00	26 Feb	43 41.5	65 19.2	23 Jun 55
30		42 41	65 04	26 Feb	No returns		
31	16462N	42 20	65 30	26 Feb	44 13	68 46	21 Aug 56
32		42 01	65 54	26 Feb	No returns		
33	16488N	41 58	67 01	26 Feb	39 26.5	74 20	18 Sep 55
34	16497B	42 04	68 03	26 Feb	42 34.5	70 45	13 Jun 55
34	16503B	42 04	68 03	26 Feb	42 49	70 49	13 Nov 55
34	16507B	42 04	68 03	26 Feb	45 05	66 28	9 Oct 55
35	16510N	42 00	69 00	27 Feb	41 27.8	71 21.7	1 Aug 55
35	16516N	42 00	69 00	27 Feb	40 28.3	74 00	14 Jul 55

		Released			Recovered		
Station	Bottle	Lat	Long	Date	Lat	Long	Date
36		42 00	69 56	27 Feb	No returns		
37		41 30	69 42	27 Feb	No returns		
38		41 25	68 55	27 Feb	No returns		
39		41 26	68 02	27 Feb	No returns		
40	16578N	41 30	67 05	28 Feb	38 45	28 20	5 May 56
41		41 29	66 00	28 Feb	No returns		
42	16602N	41 14	66 06.5	28 Feb	57 12	7 20	15 Oct 56
43		41 01	66 24	28 Feb	No returns		
44		41 01	67 00	28 Feb	No returns		
45		41 00	67 58	28 Feb	No returns		
46		41 00	69 17	1 Mar	No returns		
47	16654N	40 30	68 57	1 Mar	52 34	9 56	5 Jul 56
48		40 28	68 00	1 Mar	No returns		
49		40 32	66 58.5	1 Mar	No returns		
50		41 08	66 31	1 Mar	No returns		
51		41 30	66 20	2 Mar	No returns		
52		42 00	66 08	2 Mar	No returns		
53	16726N	42 22	66 00	2 Mar	43 54.8	64 46	21 Aug 55
54		43 09.5	65 27	2 Mar	No returns		

ALBATROSS III Cruise 58 19 March-1 April, 1955

		Released			Recovered		
Station	Bottle	Lat	Long	Date	Lat	Long	Date
1		41 17.5	71 00	19 Mar	No returns		
2		41 00	71 00	19 Mar	No returns		
3		40 28.8	71 00.8	19 Mar	No returns		
4		40 01.5	71 00	19 Mar	No returns		
5		39 59.5	69 50	19 Mar	No returns		
6		40 02.4	68 57	20 Mar	No returns		
7		40 04.2	67 58.5	20 Mar	No returns		
8		40 30.4	67 44.5	20 Mar	No returns		
9	16854N	41 01	67 32.2	20 Mar	35 58.3	75 37.8	2 Oct 55
10	16863B	41 39.6	67 10.2	20 Mar	57 10	07 22	10 Oct 56
10	16867B	41 39.6	67 10.2	20 Mar	40 52	72 24	14 Aug 55
11		42 00	66 57.2	20 Mar	No returns		
12	16882N	42 33.6	66 34	21 Mar	45 04	66 34	26 Oct 55
12	16884N	42 33.6	66 34	21 Mar	44 24	66 12	10 Jul 55
12	16889B	42 33.6	66 34	21 Mar	44 34.3	65 55	5 Jul 55
13	16897B	43 00	66 17.8	21 Mar	45 06.4	64 56.5	21 Jun 55
14	16909B	43 20	66 06.8	21 Mar	44 30	66 06	21 Apr 55
15	16951B	43 43	66 18.2	21 Mar	45 00	66 57	24 Jul 55
16	16957B	44 00	66 30	21 Mar	44 33	66 02	29 Mar 55
16	16958N	44 00	66 30	21 Mar	45 09	64 50	12 Jun 55
17	16922N	43 55.5	67 01	21 Mar	44 44.2	66 45.5	27 Apr 55
17	16926N	43 55.5	67 01	21 Mar	43 20.6	70 29.5	11 May 55
18		43 52	68 04	21 Mar	No returns		
19	16970N	43 41.5	69 00	22 Mar	42 25.7	70 56.1	10 May 55
19	16973B	43 41.5	69 00	22 Mar	42 39.4	70 42.2	21 May 55
19	16976N	43 41.5	69 00	22 Mar	42 03.1	70 38.6	29 Apr 55
20	16978N	43 35	69 43	22 Mar	41 30.5	71 04	6 Jul 55
20	16984N	43 35	69 43	22 Mar	41 56	70 33.7	10 Jun 55
21	16992N	43 21	70 06.5	22 Mar	41 21	70 47.4	5 Jun 55
21	16993B	43 21	70 06.5	22 Mar	41 40	69 57.1	4 Jul 55
21	16996N	43 21	70 06.5	22 Mar	41 27.7	70 39.5	4 Jun 55
21	16998N	43 21	70 06.5	22 Mar	42 02	70 05.8	20 May 55
22	17002N	43 00	70 31	22 Mar	42 04.9	70 10.6	29 Apr 55
22	17006N	43 00	70 31	22 Mar	40 57.2	72 10	25 Jun 55
22	17010N	43 00	70 31	22 Mar	41 55.6	70 32.8	1 May 55
22	17011B	43 00	70 31	22 Mar	42 03.7	70 09.5	25 May 55
22	17012N	43 00	70 31	22 Mar	37 29.7	75 38.8	18 Sep 55
23	17015B	42 56.8	70 01	23 Mar	35 21.2	75 30	11 Jul 56
23	17016N	42 56.8	70 01	23 Mar	42 06.6	70 40	3 May 55
23	17017B	42 56.8	70 01	23 Mar	41 55.6	70 32.8	30 Apr 55
23	17020N	42 56.8	70 01	23 Mar	41 49.2	69 56.4	13 Jun 55
23	17024N	42 56.8	70 01	23 Mar	41 44.1	70 20	25 Mar 56
24	17025B	42 55	68 55.7	23 Mar	41 56	70 33.6	15 May 55
24	17027B	42 55	68 55.7	23 Mar	42 03.5	70 08.4	22 May 55

		Released			Recovered		
Station	Bottle	Lat	Long	Date	Lat	Long	Date
24	17030N	42 55	68 55.7	23 Mar	40 55.3	72 15	15 Aug 55
24	17031B	42 55	68 55.7	23 Mar	41 22.5	70 30.3	1 Jun 55
24	17036N	42 55	68 55.7	23 Mar	39 41.5	74 08.4	15 Sep 55
25	17043B	42 52.5	68 00	23 Mar	35 14	75 31	4 Oct 55
26	17054N	42 49.4	67 02.2	24 Mar	45 00.5	66 57	20 Oct 55
26	17058N	42 49.4	67 02.2	24 Mar	44 00.5	66 09.2	19 May 55
27	17066N	42 45	65 57	24 Mar	45 09.2	64 49	28 Aug 55
27	17068N	42 45	65 57	24 Mar	43 40.6	70 10	27 Aug 55
27	17072N	42 45	65 57	24 Mar	44 54	67 02	29 Jul 55
28		42 40.5	64 59.5	24 Mar	No returns		
29		42 16	65 02	24 Mar	No returns		
30		42 21.5	66 22	24 Mar	No returns		
31		42 22	67 02	25 Mar	No returns		
32		42 18	67 59	25 Mar	No returns		
33	17137B	42 13.3	69 00	25 Mar	41 31	71 04.2	5 Jun 55
33	17139B	42 13.3	69 00	25 Mar	41 39.4	69 59.1	29 May 55
34		42 12.7	70 08.2	25 Mar	No returns		
35	17165B	42 15	70 40	25 Mar	41 17.8	70 06.3	3 Jul 55
36	17175B	42 07.3	69 58	26 Mar	41 11.5	71 34	21 Jun 55
36	17180N	42 07.3	69 58	26 Mar	41 38	70 38.6	4 Jun 55
37		41 45	69 47	26 Mar	No returns		
38	17198N	41 44.5	68 52	26 Mar	40 56.5	72 11.7	13 Aug 55
38	17200N	41 44.5	68 52	26 Mar	41 37.8	70 14.5	27 Jul 55
39		41 46	68 02.5	26 Mar	No returns		
X**	17262N	41 59	69 59	28 Mar	41 17.7	70 06.8	1 May 55
"	17264N	41 59	69 59	28 Mar	41 17.5	70 05.7	8 Apr 55
"	17266N	41 59	69 59	28 Mar	41 17.7	70 06.8	25 Apr 55
"	17272N	41 59	69 59	28 Mar	41 17.8	70 06.5	5 Apr 55
"	17276N	41 59	69 59	28 Mar	41 39.3	69 57.5	17 Apr 55
"	17277B	41 59	69 59	28 Mar	41 17.7	70 08	17 Apr 55
"	17280N	41 59	69 59	28 Mar	41 17	70 05	19 Apr 55
"	17282N	41 59	69 59	28 Mar	37 52.8	75 20.7	2 Oct 55
"	17283B	41 59	69 59	28 Mar	39 31	74 18	16 Oct 55
"	17284N	41 59	69 59	28 Mar	41 17.7	70 09	17 May 55
"	17288N	41 59	69 59	28 Mar	41 17.8	70 06.3	30 Jun 55
40		41 58	69 49	29 Mar	No returns		
41	17304N	41 55.8	69 00	29 Mar	40 48	72 44	11 Aug 55
41	17307B	41 55.8	69 00	29 Mar	41 23	70 27	28 May 55
42	17316N	41 59.5	68 01.8	29 Mar	36 54.9	76 04.2	3 Oct 55
43	17336N	42 00	67 01	29 Mar	41 30.3	70 41.5	6 Aug 55
44	17344N	41 53.5	65 58.8	29 Mar	40 35	73 33.5	15 Sep 55
45		41 55.3	65 32	29 Mar	No returns		
46	17370N	42 29.6	65 02.8	30 Mar	43 20	70 27	22 May 55
47		42 27.3	66 00	30 Mar	No returns		

** Six releases every hour from 1000 through 2100.

		Released			Recovered		
Station	Bottle	Lat	Long	Date	Lat	Long	Date
48		42 26.5	66 25	30 Mar	No returns		
49		41 58	66 14	30 Mar	No returns		
50		41 32.3	66 00.3	30 Mar	No returns		
51	17430N	41 27	66 58.5	30 Mar	41 18.5	70 47.5	23 Jul 55
51	17432N	41 27	66 58.5	30 Mar	41 20.8	70 30	16 Jul 55
52	17443B	41 47	67 00	31 Mar	39 32.6	74 15.1	25 Aug 55
53	17448N	41 46.8	66 00	31 Mar	41 39.4	69 58.2	6 Aug 55
53	17450N	41 46.8	66 00	31 Mar	41 17.4	70 05.7	13 Jul 55
54		41 44	65 40.4	31 Mar	No returns		
55	17470N	41 15.3	66 06.2	31 Mar	40 50.5	72 28.7	11 Aug 55
56	17487B	41 10	66 32	31 Mar	35 56.9	75 37	22 Sep 55
57		41 03	67 14	31 Mar	No returns		
58		40 52.5	68 00.2	31 Mar	No returns		
59		40 44.5	68 37.6	1 Apr	No returns		
60	17540N	40 36.5	69 18.5	1 Apr	38 20	75 05	7 Sep 55
61		40 37	69 53	1 Apr	No returns		
62		40 54.2	70 27	1 Apr	No returns		
63	17572N	41 09	70 48.5	1 Apr	37 51	75 28.1	20 Sep 55

ALBATROSS III Cruise 60 19 April-3 May, 1955

		Released			Recovered		
Station	Bottle	Lat	Long	Date	Lat	Long	Date
1		41 19	70 59	19 Apr	No returns		
2	17592N	41 00.5	71 01.5	19 Apr	37 53.5	75 25	24 Aug 55
3		41 31.5	71 00.5	19 Apr	No returns		
4		40 08.5	70 58.5	19 Apr	No returns		
5		39 56.5	69 59	20 Apr	No returns		
6		39 54	69 11	20 Apr	No returns		
6a		39 53.5	68 52.5	20 Apr	No returns		
7	17667B	39 59.3	68 01	20 Apr	59 00	03 00	2 Nov 56
8		40 31	67 41	20 Apr	No returns		
9	17686N	41 02.5	67 29	20 Apr	41 20.8	70 33.1	8 Jul 55
10	17704N	41 32	67 08.5	20 Apr	38 25	31 10	12 May 56
11	17710N	42 02	66 50	21 Apr	40 34.7	73 50	13 Aug 55
11	17717B	42 02	66 50	21 Apr	40 39	73 07.6	3 Sep 55
12		42 16.2	66 41	21 Apr	No returns		
13		42 37.5	66 23	21 Apr	No returns		
14		43 01.5	66 19	21 Apr	No returns		
15		43 19	66 05	21 Apr	No returns		
16		43 41	66 18.5	21 Apr	No returns		
17	17782N	44 00	66 27.8	21 Apr	42 02.6	70 13	25 Jun 55
17	17784N	44 00	66 27.8	21 Apr	44 30	66 06	8 Sep 55
18	17797B	43 57.5	67 03	21 Apr	43 35.8	70 13.1	8 May 55
19	17812N	43 55.5	67 30	21 Apr	43 44.7	70 02	10 Sep 55
20	17826N	43 50	67 57.2	22 Apr	41 40	69 56	17 Oct 55
20	17828N	43 50	67 57.2	22 Apr	43 41	65 05	14 Aug 55
21	17832N	43 41.5	68 23.5	22 Apr	41 48	69 57	6 Nov 55
21	17835B	43 41.5	68 23.5	22 Apr	42 03	70 13.4	17 Jun 55
22	17843B	43 36.1	68 55	22 Apr	41 24.5	70 32.2	12 Jul 55
22	17844N	43 36.1	68 55	22 Apr	42 14.1	70 45.6	21 May 55
22	17847B	43 36.1	68 55	22 Apr	42 25.7	70 56.1	23 May 55
22	17850N	43 36.1	68 55	22 Apr	42 33	70 50	8 May 55
23	17854N	43 29.5	69 33.5	22 Apr	42 18.7	70 57.2	1 May 55
23	17855B	43 29.5	69 33.5	22 Apr	42 09.6	70 42.6	6 Apr 56
23	17856N	43 29.5	69 33.5	22 Apr	42 16.7	70 57.1	30 Apr 55
23	17860N	43 29.5	69 33.5	22 Apr	42 36.6	70 40	5 Aug 55
23	17864N	43 29.5	69 33.5	22 Apr	42 16.9	70 57.4	30 Apr 55
24	17866N	43 20	70 01	22 Apr	42 59	70 45.8	27 Apr 55
24	17868N	43 20	70 01	22 Apr	42 56.3	70 47.7	27 Apr 55
24	17871B	43 20	70 01	22 Apr	42 59.2	70 45.8	26 Apr 55
24	17876N	43 20	70 01	22 Apr	43 03.9	70 42.8	26 Apr 55
25	17878N	43 01.5	70 21	22 Apr	42 48.5	70 48.5	1 May 55
25	17883B	43 01.5	70 21	22 Apr	42 48.5	70 51.7	27 Apr 55
25	17884N	43 01.5	70 21	22 Apr	42 48.9	70 48.5	25 Apr 55

		Released			Recovered		
Station	Bottle	Lat	Long	Date	Lat	Long	Date
26	17889B	42 56.8	69 59.5	22 Apr	42 15.5	70 48.4	28 Apr 55
26	17890N	42 56.8	69 59.5	22 Apr	42 18.9	70 58.3	29 Apr 55
26	17898N	42 56.8	69 59.5	22 Apr	42 01.1	70 05.2	20 May 55
26	17899B	42 56.8	69 59.5	22 Apr	41 41.8	69 57.1	26 Jun 55
26	17900N	42 56.8	69 59.5	22 Apr	42 48	70 48.5	4 Jul 55
27	17901B	42 55.8	69 33.8	22 Apr	42 04.9	70 11	9 May 55
27	17904N	42 55.8	69 33.8	22 Apr	41 55.6	70 32.8	30 Apr 55
27	17906N	42 55.8	69 33.8	22 Apr	41 56.4	70 34.1	22 May 55
27	17912N	42 55.8	69 33.8	22 Apr	41 47.1	70 30.5	8 May 55
28		42 56.5	68 58	22 Apr	No returns		
29		42 54.4	68 00.7	23 Apr	No returns		
30		42 52.5	67 05	23 Apr	No returns		
31	17955B	42 51	66 29	23 Apr	45 07.8	66 34.2	1 Aug 55
32		42 49.5	66 00.5	23 Apr	No returns		
33	17977B	42 44.2	65 26	23 Apr	44 56	67 00.8	9 Oct 55
33	17979B	42 44.2	65 26	23 Apr	45 07.8	66 34.2	31 Jul 55
34	17993B	42 39.2	64 57	23 Apr	45 03	66 47	5 Sep 55
34	17994N	42 39.2	64 57	23 Apr	45 03.7	66 44	24 Jun 55
34	17985B	42 39.2	64 57	23 Apr	45 04.6	66 39	11 Sep 55
35	18005B	42 15	65 04	23 Apr	42 01.6	70 02.6	22 Oct 55
35	18008N	42 15	65 04	23 Apr	43 27	65 16	2 Jul 55
36	18017B	42 16	65 31.5	23 Apr	43 41	65 04	2 Dec 55
37	18028N	43 15.5	65 59.3	23 Apr	40 51.2	72 30	15 Oct 55
38		42 15.8	66 30.5	23 Apr	No returns		
39		42 16	66 58.8	24 Apr	No returns		
40		42 18	67 33.4	24 Apr	No returns		
41		42 18	68 01	24 Apr	No returns		
42	18086N	42 19	69 01.1	24 Apr	41 20.9	70 32.5	26 May 55
42	18087B	42 19	69 01.1	24 Apr	41 28.3	71 10	30 Jun 55
42	18088N	42 19	69 01.1	24 Apr	40 45.4	72 46.8	11 Aug 55
42	18089B	42 19	69 01.1	24 Apr	39 56.4	74 04.3	13 Aug 55
42	18090N	42 19	69 01.1	24 Apr	41 01.8	71 57.2	13 Jun 55
43	18096N	42 16	69 34.2	24 Apr	41 35.4	70 38.6	6 Aug 55
43	18097B	42 16	69 34.2	24 Apr	41 22.4	70 30.4	8 Aug 55
43	18100N	42 16	69 34.2	24 Apr	40 44.5	72 50	12 Jun 55
43	18101B	42 16	69 34.2	24 Apr	35 50	75 37.1	13 Nov 55
43	18103B	42 16	69 34.2	24 Apr	40 43	72 55	10 Jul 55
44	18108N	42 15.3	69 59	27 Apr	41 23.4	70 30.3	20 Jun 55
44	18110N	42 15.3	69 59	27 Apr	41 25	70 33	10 Jun 55
44	18115B	42 15.3	69 59	27 Apr	41 20.7	70 40	20 Aug 55
45	18119B	42 14.2	70 12	27 Apr	41 49	69 56.4	26 May 55
45	18125B	42 14.2	70 12	27 Apr	41 21	70 01.6	22 Jul 55
45	18128N	42 14.2	70 12	27 Apr	41 49.2	69 56.4	16 Aug 55
46	18129B	42 01.9	69 57.1	27 Apr	41 22.8	70 30	31 May 55
46	18131B	42 01.9	69 57.1	27 Apr	41 27.5	70 39.9	14 Jun 55
46	18132N	42 01.9	69 57.1	27 Apr	41 39.4	69 59.1	28 May 55
46	18133B	42 01.9	69 57.1	27 Apr	41 22	70 30	4 Jul 55

		Released			Recovered		
Station	Bottle	Lat	Long	Date	Lat	Long	Date
46	18134N	42 01.9	69 57.1	27 Apr	41 20.8	70 30	20 May 55
46	18136N	42 01.9	69 57.1	27 Apr	41 34	70 39	4 Jun 55
46	18137B	42 01.9	69 57.1	27 Apr	40 44	72 51.8	12 Jun 55
46	18138N	42 01.9	69 57.1	27 Apr	41 26.8	70 55.3	20 Jul 55
46	18139B	42 01.9	69 57.1	27 Apr	41 21	70 50.2	6 Jun 55
46	18140N	42 01.9	69 57.1	27 Apr	41 20.9	70 32.5	26 May 55
47	18142N	41 44.6	69 40	27 Apr	40 47.7	72 55.7	15 Aug 55
47	18144N	41 44.6	69 40	27 Apr	39 18	74 33	9 Oct 55
47	18151B	41 44.6	69 40	27 Apr	41 21	70 47.4	8 Jun 55
47	18152N	41 44.6	69 40	27 Apr	40 37.3	73 18.5	14 Aug 55
48	18154N	41 44	69 20	27 Apr	41 23	70 30.3	31 May 55
48	18160N	41 44	69 20	27 Apr	37 12.8	75 49	17 Nov 55
49	18169B	41 45	68 57	27 Apr	40 46	72 45	21 Aug 55
50		41 47.2	68 33	28 Apr	No returns		
51	18191B	41 50.4	68 04.6	28 Apr	44 40	65 46	1 Dec 55
52		41 44	66 55.5	28 Apr	No returns		
53		41 40.8	66 29.8	28 Apr	No returns		
54		41 44.7	66 03.8	28 Apr	No returns		
55		41 45.2	65 43	28 Apr	No returns		
56		41 35	65 54	28 Apr	No returns		
57	18262N	41 14.8	66 16	28 Apr	35 32.5	75 28	30 Sep 55
57	18272N	41 14.8	66 16	28 Apr	40 53.4	72 20	14 Aug 55
58		41 14.2	66 30.5	28 Apr	No returns		
59		41 15.1	66 59	28 Apr	No returns		
60		41 14.2	67 29	29 Apr	No returns		
61	18312N	41 16.5	68 03.4	29 Apr	41 32.6	70 36.7	16 Jul 55
61	18316N	41 16.5	68 03.4	29 Apr	40 49.2	72 31	19 Aug 55
61	18320N	41 16.5	68 03.4	29 Apr	41 20.8	70 30	16 Jul 55
62	18328N	41 17.2	68 32.7	29 Apr	42 02	70 05.7	28 Oct 55
63		41 14.3	68 50.2	29 Apr	No returns		
64	18346N	41 00	68 49.3	29 Apr	41 20.9	70 33	6 Jun 55
64	18348N	41 00	68 49.3	29 Apr	41 38.3	70 38.6	30 Jun 55
64	18350N	41 00	68 49.3	29 Apr	35 54.1	75 35.4	14 Sep 55
64	18352N	41 00	68 49.3	29 Apr	35 21	75 30	15 Sep 55
64	18354N	41 00	68 49.3	29 Apr	40 38.3	73 18.6	4 Sep 55
64	18355B	41 00	68 49.3	29 Apr	41 30	71 20	25 Jun 55
65		40 43.6	68 45.6	29 Apr	No returns		
66		40 40	68 23.5	30 Apr	No returns		
67	18383B	40 39.5	67 53.5	30 Apr	37 30	75 38.6	4 Oct 55
67	18389B	40 39.5	67 53.5	30 Apr	41 28.8	71 16.6	14 Aug 55
68	18393B	40 39.4	67 26.4	30 Apr	35 15.8	75 31	7 Oct 55
68	18402N	40 39.4	67 26.4	30 Apr	40 38.3	73 11	16 Aug 55
69		40 40.5	67 00.7	30 Apr	No returns		
70	18420N	40 44.3	66 42.9	30 Apr	38 20	75 05	23 Sep 55

		Released			Recovered		
Station	Bottle	Lat	Long	Date	Lat	Long	Date
71	18432N	41 01.5	66 32	30 Apr	40 53	72 28.6	28 Aug 55
71	18436N	41 01.5	66 32	30 Apr	39 54.2	74 04.7	12 Aug 55
71	18439B	41 01.5	66 32	30 Apr	40 02.2	74 03	22 Sep 55
72		41 33.6	66 17	1 May	No returns		
73		42 02.6	66 03	1 May	No returns		
74		42 26	65 39	1 May	No returns		
75	18482N	42 45.6	65 28	1 May	45 05	66 28	12 Oct 55
75	18487B	42 45.6	65 28	1 May	41 47.7	70 01.2	23 Nov 55
76	18498N	42 57	65 20.5	1 May	44 36	66 54.5	30 Jul 55
77		42 58	65 41	1 May	No returns		
78	18518N	42 58	66 00	1 May	43 48	66 09	21 May 55
78	18521B	42 58	66 00	1 May	44 34.5	65 55	31 May 55
78	18522N	42 58	66 00	1 May	43 20.3	65 37.3	29 Jul 55
79	18526N	42 41	65 48.2	1 May	43 29	65 29.5	6 Jun 55
79	18531B	42 41	65 48.2	1 May	43 07.2	70 51.5	28 Apr 56
79	18532N	42 41	65 48.2	1 May	44 45.9	66 44.2	3 Aug 55
79	18533B	42 41	65 48.2	1 May	45 06	66 30	5 Jul 55
79	18534N	42 41	65 48.2	1 May	44 33	66 02	10 Aug 55
80		42 27	65 39	1 May	No returns		
81	18552N	42 15.2	65 31	1 May	44 01	68 37	28 Oct 55
82		42 07	65 45	1 May	No returns		
83		41 55.8	66 02.5	2 May	No returns		
84		41 46.3	66 17.4	2 May	No returns		
85		41 32	66 34	2 May	No returns		
86		41 18.5	66 52	2 May	No returns		
87		41 12.3	67 15	2 May	No returns		
88		41 03	67 30	2 May	No returns		
89		40 52.5	67 48	2 May	No returns		
90	18668N	40 40.6	68 08.5	2 May	56 30	07 07	25 Aug 56
91		40 36.8	68 11.4	2 May	No returns		
92		40 33.2	67 51.4	2 May	No returns		
93	18694N	40 31	67 29	2 May	41 35	70 50	6 Aug 55
93	18703B	40 31	67 29	2 May	40 47	72 48	17 Aug 55
94	18705B	40 32	67 52.8	2 May	40 39.5	73 05	28 Sep 55
94	18710N	40 32	67 52.8	2 May	39 03	74 45.4	14 Sep 55
94	18711B	40 32	67 52.8	2 May	39 03	74 45.4	25 Sep 55
95		40 29.8	68 17.8	2 May	No returns		
96		40 27.8	68 40	2 May	No returns		
97	18748N	40 24.7	69 09	3 May	60 47	00 48	12 Oct 56
98	18753B	40 29.4	69 29.3	3 May	39 03	74 45.4	19 Sep 55
98	18754N	40 29.4	69 29.3	3 May	40 51	72 26.8	7 Aug 55
98	18756N	40 29.4	69 29.3	3 May	35 26.7	75 28.9	28 Sep 55
98	18758N	40 29.4	69 29.3	3 May	40 52	72 24	15 Aug 55
98	18759B	40 29.4	69 29.3	3 May	39 56.4	74 04.3	14 Aug 55
98	18761B	40 29.4	69 29.3	3 May	41 04	71 56.9	14 Aug 55

		Released			Recovered		
Station	Bottle	Lat	Long	Date	Lat	Long	Date
99		40 31.2	69 45.8	3 May	No returns		
100	18777B	40 38.5	70 07.7	3 May	41 35.6	70 39	24 Jun 55
100	18778N	40 38.5	70 07.7	3 May	40 39.6	73 05	13 Jun 55
100	18781B	40 38.5	70 07.7	3 May	41 28.8	70 45.1	1 Jun 55
100	18782N	40 38.5	70 07.7	3 May	41 20.8	70 29	24 May 55
101	18789B	40 56	70 30.5	3 May	41 18.4	70 47.3	28 May 55
101	18791B	40 56	70 30.5	3 May	41 20.9	70 32.5	24 May 55
101	18792N	40 56	70 30.5	3 May	41 20	70 44	27 Jul 55
101	18795B	40 56	70 30.5	3 May	41 18.7	70 48	29 May 55
101	18796N	40 56	70 30.5	3 May	41 24.1	70 30.7	10 Apr 56
101	18799B	40 56	70 30.5	3 May	41 21	70 30.5	25 May 55
102	18811B	41 11.7	70 50	3 May	41 30.1	71 06.5	29 May 55

ALBATROSS III Cruise 61 16-28 May, 1955

		Released			Recovered		
Station	Bottle	Lat	Long	Date	Lat	Long	Date
1	18816N	41 17.3	71 00	16 May	41 29.2	70 44	5 Jun 55
1	18818N	41 17.3	71 00	16 May	41 13.9	71 34.6	10 Jun 55
1	18820N	41 17.3	71 00	16 May	41 38.1	70 20	31 May 55
1	18822N	41 17.3	71 00	16 May	41 38.1	70 17	31 May 55
2	18825B	40 39.5	70 30	16 May	41 25	70 55.8	6 Jun 55
2	18829B	40 39.5	70 30	16 May	41 11.5	71 33.9	10 Jun 55
2	18831B	40 39.5	70 30	16 May	41 13.5	71 33.8	9 Jun 55
3	18844N	40 00	70 00	16 May	39 31.2	74 16.5	19 Sep 55
4	18853B	40 00	69 05.3	16 May	40 47.2	72 40	4 Sep 55
5		39 59	67 59	17 May	No returns		
6		41 02	67 23.5	17 May	No returns		
7		42 00	66 58	17 May	No returns		
8	18903B	42 37.2	66 21	17 May	43 40	65 05	12 Jun 55
8	18906N	42 37.2	66 21	17 May	45 08.5	66 16	12 Sep 55
9	18912N	43 15	66 06.8	18 May	45 04	67 02.5	5 Jul 55
9	18919B	43 15	66 06.8	18 May	43 38	66 03	16 Nov 55
9	18920N	43 15	66 06.8	18 May	44 05	66 13	18 Oct 55
10	18926N	43 19	67 21.5	18 May	42 41.5	70 47.5	25 Nov 55
11	18940N	43 52	66 20	18 May	44 46	65 36.5	14 Jun 55
11	18941B	43 52	66 20	18 May	43 40.6	70 10	21 Aug 55
11	18944N	43 52	66 20	18 May	45 07.2	66 30	22 Jun 55
12	18947B	44 20	67 30	18 May	44 57.5	65 14	31 Oct 55
12	18948N	44 20	67 30	18 May	43 36.4	70 13	14 Jun 55
12	18956N	44 20	67 30	18 May	44 16	66 08	10 Sep 55
13		44 23.8	66 30.6	19 May	No returns		
14		43 47	67 12	19 May	No returns		
15	18981B	43 29.3	66 11.2	19 May	45 08	64 53	29 Aug 55
15	18988N	43 29.3	66 11.2	19 May	45 01	67 04.6	31 Jul 55
16	19004N	43 30.3	68 03	19 May	44 57	66 54	7 Sep 55
17		43 31	69 00	20 May	No returns		
18		43 31	70 03.4	20 May	No returns		
19	19130N	42 57.8	70 22.3	20 May	39 20.6	74 28	7 Oct 55
20	19043B	42 48	68 55	20 May	44 52	66 56	22 Oct 55
21	19054N	42 48.9	67 53.8	20 May	45 14	66 03.5	14 Sep 55
21	19064N	42 48.9	67 53.8	20 May	44 49.3	65 31	25 Sep 55
22	19067B	42 47.4	66 57.2	20 May	43 38	70 13	8 Oct 56
22	19069B	42 47.4	66 57.2	20 May	45 06.9	66 21.5	28 Jul 55
22	19072N	42 47.4	66 57.2	20 May	44 49.5	66 58	30 Jul 55
23		42 44	66 02	21 May	No returns		
24		42 33	64 38.8	21 May	No returns		
25		42 00	64 42	21 May	No returns		

		Released			Recovered		
Station	Bottle	Lat	Long	Date	Lat	Long	Date
26	19114N	41 58.2	66 03	21 May	44 41	65 35	1 Nov 55
26	19122N	41 58.2	66 03	21 May	43 26.3	65 37.6	28 Jun 55
27		42 04.2	66 58	21 May	No returns		
28	19146N	42 02	68 01.6	22 May	43 27.7	65 29.6	11 Jul 55
29	19150N	42 33.3	70 31.7	22 May	43 27.5	65 39	18 Aug 55
29	19154N	42 33.3	70 31.7	22 May	42 03.7	70 06	12 Jun 55
29	19158N	42 33.3	70 31.7	22 May	42 04.3	70 07.8	15 Jun 55
30		42 10.7	70 02	22 May	No returns		
31		41 51.8	69 36.9	22 May	No returns		
32	19189B	41 49	68 55.5	23 May	44 56.5	65 17	20 Sep 55
33		41 44.7	68 04	23 May	No returns		
34	19210N	41 32	69 32.5	23 May	41 20.8	70 34	8 Jul 55
34	19211B	41 32	69 32.5	23 May	41 28	71 23.4	14 Aug 55
34	19219B	41 32	69 32.5	23 May	41 20.8	70 30	15 Jul 55
35		41 18.5	68 55.2	23 May	No returns		
36		41 27	68 02	23 May	No returns		
37	19248N	41 32.8	66 55.8	24 May	41 17	72 15.7	15 Aug 55
37	19251B	41 32.8	65 55.8	24 May	41 30	71 07.6	25 Aug 55
37	19255B	41 32.8	66 55.8	24 May	41 30	71 03	26 Jul 55
37	19256N	41 32.8	66 55.8	24 May	41 35	70 51.5	19 Jul 55
38		41 25.8	65 51.4	24 May	No returns		
39		41 00.9	66 15.9	24 May	No returns		
40	19282N	41 03.6	67 00.9	24 May	40 58	72 07.8	15 Aug 55
40	19287B	41 03.6	67 00.9	24 May	41 33.7	71 13.2	4 Aug 55
40	19288N	41 03.6	67 00.9	24 May	40 57.6	72 09	15 Aug 55
40	19290N	41 03.6	67 00.9	24 May	40 36.8	73 24.4	15 Aug 55
40	19291B	41 03.6	67 00.9	24 May	39 37	31 07	2 Aug 56
41		41 02	69 09.4	24 May	No returns		
42	19306N	40 30.4	69 03.2	25 May	40 05	74 02.4	14 Aug 55
42	19310N	40 30.4	69 03.2	25 May	40 46	72 45	9 Aug 55
42	19311B	40 30.4	69 03.2	25 May	40 35	73 34	21 Aug 55
42	19312N	40 30.4	69 03.2	25 May	40 33.1	73 56	15 Aug 55
42	19313B	40 30.4	69 03.2	25 May	40 47.3	72 40	14 Aug 55
42	19316N	40 30.4	69 03.2	25 May	41 43	70 37	22 Jul 55
43	19327B	40 28.2	68 00.2	25 May	39 37.2	74 11.7	20 Sep 55
44		40 31.4	66 55.8	25 May	No returns		
45		40 31.3	66 31.6	25 May	No returns		
46		39 50	67 14	25 May	No returns		
47	19372N	40 58.5	67 57.8	26 May	40 48	72 42.7	21 Aug 55
47	19376N	40 58.5	67 57.8	26 May	41 30.5	71 05	8 Jun 56
48	19318N	39 45.8	68 28.8	26 May	39 19.5	74.30	8 Oct 55
49		40 57.4	69 00.8	26 May	No returns		
50	19392N	39 46	69 30.4	27 May	40 51.5	72 25	15 Aug 55
51	19414N	40 42.3	70 06.2	27 May	40 52	72 23.5	13 Jun 55
51	19415B	40 42.3	70 06.2	27 May	35 13.7	75 31.6	17 Sep 55

		Released			Recovered		
Station	Bottle	Lat	Long	Date	Lat	Long	Date
51	19416N	40 42.3	70 06.2	27 May	40 46.5	72 42.8	12 Jun 55
51	19418N	40 42.3	70 06.2	27 May	36 55.8	76 10.7	20 Sep 55
51	19423B	40 42.3	70 06.2	27 May	35 25	75 29	7 Nov 56
51	19424N	40 42.3	70 06.2	27 May	40 46.5	72 42.8	12 Jun 55
52		39 49.6	70 33.1	27 May	No returns		
53	19440N	40 42	71 16	27 May	40 38	73 12	14 Aug 55
53	19442N	40 42	71 16	27 May	40 34.7	73 50	9 Sep 55
54		40 02.8	71 57.2	28 May	No returns		
55	19467B	41 00.2	71 37.6	28 May	36 05	75 42	18 Sep 55
55	19468N	41 00.2	71 37.6	28 May	38 36.5	75 03.6	14 Aug 55
56	19476N	41 12.8	71 15.5	28 May	38 30	75 03.1	24 Sep 55
56	19479B	41 12.8	71 15.5	28 May	38 20	75 05	17 Aug 55
56	19481B	41 12.8	71 15.5	28 May	40 38.1	73 11.8	13 Jun 55
56	19482N	41 12.8	71 15.5	28 May	41 11	71 34	9 Jun 55
56	19483B	41 12.8	71 15.5	28 May	40 38.1	73 11.8	12 Jun 55
56	19484N	41 12.8	71 15.5	28 May	41 11	71 34	9 Jun 56

ALBATROSS III Cruise 71 20 Feb-2 March, 1956

		Released			Recovered		
Station	Bottle	Lat	Long	Date	Lat	Long	Date
1		41 17.5	71 00	20 Feb	No returns		
2		40 50.5	71 01	20 Feb	No returns		
3		40 24	71 00.5	20 Feb	No returns		
4		40 00	71 00	20 Feb	No returns		
5		39 58	70 22	21 Feb	No returns		
6		39 56.5	69 45	21 Feb	No returns		
7		39 56.3	68 57	21 Feb	No returns		
8		39 57	68 00	21 Feb	No returns		
9		40 26.2	67 42.5	21 Feb	No returns		
10		40 53.5	67 26	21 Feb	No returns		
11		41 23	67 16	22 Feb	No returns		
12		41 55.3	67 01	22 Feb	No returns		
13	19639B	42 18.5	66 45	22 Feb	41 30	71 02.5	5 Sep 56
14		42 45	66 32	22 Feb	No returns		
15	19662N	43 18.8	66 13.3	22 Feb	43 34	65 47	13 May 56
16	19671B	43 44	66 32	22 Feb	44 58	67 03	27 Jul 56
17		43 56.7	66 41.2	22 Feb	No returns		
18	19694N	43 50	67 30	23 Feb	44 23.5	66 12.7	5 May 56
19	20344N	43 44	68 05.5	23 Feb	42 18	70 53	26 Oct 56
19	20350N	43 44	68 05.5	23 Feb	43 44.2	70 01.3	28 Jul 56
20	20356N	43 34.6	68 34.9	23 Feb	44 56	66 58	22 Jun 56
20	20361B	43 34.6	68 34.9	23 Feb	42 01.9	70 05.6	23 Nov 56
20	20364N	43 34.6	68 34.9	23 Feb	41 21	70 27	1 Nov 56
21	20365B	43 30.5	69 20.7	23 Feb	41 38.1	70 20	29 May 56
21	20369B	43 30.5	69 20.7	23 Feb	41 40.5	70 43	1 Jun 56
21	20370N	43 30.5	69 20.7	23 Feb	41 50	69 56.6	26 Jun 56
21	20373B	43 30.5	69 20.7	23 Feb	41 23	70 30.3	22 Jun 56
21	20374N	43 30.5	69 20.7	23 Feb	41 21.2	70 46.1	18 May 56
21	20376N	43 30.5	69 20.7	23 Feb	41 23	70 45	25 Jul 56
22	20379B	43 26.3	70 04.5	23 Feb	41 39	70 10.5	5 Jun 56
22	20381B	43 26.3	70 04.5	23 Feb	41 36	70 39	13 Jul 56
23	19704N	42 54.8	70 26.5	23 Feb	42 04.4	70 14.3	1 Jun 56
23	19706N	42 54.8	70 26.5	23 Feb	41 51.7	69 57.1	21 Mar 56
23	19707B	42 54.8	70 26.5	23 Feb	41 44.2	70 20	11 Aug 56
23	19709B	42 54.8	70 26.5	23 Feb	42 01.9	70 37.5	19 Apr 56
24	19715B	42 53.3	69 43.8	23 Feb	42 03.8	70 14.8	2 Apr 56
24	19717B	42 53.3	69 43.8	23 Feb	42 04.8	70 13.3	25 Mar 56
24	19718N	42 53.3	69 43.8	23 Feb	42 04.8	70 13.3	2 Apr 56
24	19719B	42 53.3	69 43.8	23 Feb	42 04.3	70 08	28 May 56
24	19721B	42 53.3	69 43.8	23 Feb	41 57.5	70 04.7	7 Apr 56
24	19723B	42 53.3	69 43.8	23 Feb	42 04	70 14.7	21 Mar 56

		Released			Recovered		
Station	Bottle	Lat	Long	Date	Lat	Long	Date
25	19729B	42 48.5	69 14	23 Feb	41 16	70 14	28 Jul 56
26		42 48	68 27	24 Feb	No returns		
27		42 47	67 38	24 Feb	No returns		
28	19806N	42 46.5	66 58	24 Feb	45 28	64 50	23 Jun 56
28	19808N	42 46.5	66 58	24 Feb	42 04.8	70 13.3	6 Oct 56
29		42 42.5	66 15	24 Feb	No returns		
30		42 38	65 42	24 Feb	No returns		
31		42 35.3	64 51.5	24 Feb	No returns		
32		42 22.5	65 03	24 Feb	No returns		
33		42 08.8	65 25.1	24 Feb	No returns		
34		42 07.8	65 53.5	24 Feb	No returns		
35		42 08	66 32	25 Feb	No returns		
36		42 11	67 09	25 Feb	No returns		
37	19969B	42 13	67 46	25 Feb	41 26	70 42	1 Jul 56
38	19980N	42 09.4	68 25.2	25 Feb	41 29.7	71 08	2 Jul 56
38	19984N	42 09.4	68 25.2	25 Feb	41 23	70 30.3	28 May 56
39	19990N	42 20.5	69 01	25 Feb	41 28.6	70 46.7	2 Jul 56
40	20014N	42 31.8	69 46	25 Feb	41 17.8	70 06	17 Jun 56
40	20015B	42 31.8	69 46	25 Feb	45 18	64 47	14 Oct 56
40	20017B	42 31.8	69 46	25 Feb	41 23.1	70 30	16 Jun 56
40	20021B	42 31.8	69 46	25 Feb	41 44	69 58	21 Mar 56
40	20022N	42 31.8	69 46	25 Feb	41 20.8	70 30	24 May 56
41	20027B	42 11	70 07	27 Feb	41 30.4	71 04	22 Jun 56
41	20032N	42 11	70 07	27 Feb	42 04.4	70 14.2	2 Mar 56
41	20033B	42 11	70 07	27 Feb	41 37.6	71 12	1 Jul 56
41	20034N	42 11	70 07	27 Feb	42 04.1	70 14.6	8 Mar 56
41	20036N	42 11	70 07	27 Feb	41 44.9	70 25.7	22 Apr 56
42		41 52.7	69 39.5	27 Feb	No returns		
43	20051B	41 52.7	69 00.8	28 Feb	41 34.7	70 56.2	20 Jun 56
44	20067B	41 53	68 21	28 Feb	41 36.5	70 16	15 Jul 56
45		41 51.5	67 38	29 Feb	No returns		
46	20093B	41 46.5	66 50	29 Feb	41 20.5	70 42.5	6 Jun 56
46	20094N	41 46.5	66 50	29 Feb	41 21	70 47	20 Oct 56
47		41 42	66 19.5	29 Feb	No returns		
48		41 36	66 00	29 Feb	No returns		
49		41 20	66 08	29 Feb	No returns		
50		41 13.8	66 57	29 Feb	No returns		
51		41 15.4	67 56	1 Mar	No returns		
52	20165B	41 13.5	68 59.7	1 Mar	41 30	71 02.6	10 Jul 56
53		40 46	68 58	1 Mar	No returns		
54		40 47	68 17	1 Mar	No returns		
55		40 48.5	67 43.7	1 Mar	No returns		
56		40 28.8	67 55.4	1 Mar	No returns		
57		40 27.5	68 59	1 Mar	No returns		
58		40 35.5	69 39	2 Mar	No returns		

		Released			Recovered		
Station	Bottle	Lat	Long	Date	Lat	Long	Date
59		40 44.7	70 19.4	2 Mar	No returns		
60	20257B	41 17	70 52.7	2 Mar	41 19.2	70 48.7	18 Apr 56
60	20260N	41 17	70 52.7	2 Mar	40 21	70 46.5	18 Mar 56
60	20264N	41 17	70 52.7	2 Mar	41 25.5	70 44	15 Mar 56
60	20265B	41 17	70 52.7	2 Mar	41 25.5	70 55.5	26 Sep 56
60	20267B	41 17	70 52.7	2 Mar	41 26	70 50.9	11 Jun 56

ALBATROSS III Cruise 72 21-31 March, 1956

		Released			Recovered		
Station	Bottle	Lat	Long	Date	Lat	Long	Date
1	20272N	41 17.8	71 00	21 Mar	40 58.4	72 06.6	17 Apr 56
1	20273B	41 17.8	71 00	21 Mar	41 30.5	71 04	24 Jun 56
1	20274N	41 17.8	71 00	21 Mar	41 16	70 12.3	2 Jun 56
1	20276N	41 17.8	71 00	21 Mar	40 58.5	72 06.2	17 Apr 56
1	20278N	41 17.8	71 00	21 Mar	40 58.3	72 07.3	17 Apr 56
2		40 38	71 01	21 Mar	No returns		
3		40 02.5	70 59	21 Mar	No returns		
4		40 01	70 13.5	22 Mar	No returns		
5		40 01	69 26	22 Mar	No returns		
6		39 57.5	68 38	22 Mar	No returns		
7		39 57.5	68 04.3	22 Mar	No returns		
8		40 32	67 43	22 Mar	No returns		
9	20413B	41 06	67 26.5	22 Mar	41 27.5	70 46.7	7 Jul 56
9	20422N	41 06	67 26.5	22 Mar	41 23.4	70 30.5	26 May 56
10		41 39	67 08	23 Mar	No returns		
11		42 09	66 54	23 Mar	No returns		
12	20456N	42 40	66 22	23 Mar	44 54.5	65 21	25 May 56
12	20460N	42 40	66 22	23 Mar	45 09	64 48	21 Jun 56
13	20467B	43 10	66 13	23 Mar	44 50	66 56	14 Jul 56
14		43 03.8	65 31.3	23 Mar	No returns		
15		42 59	64 40	23 Mar	No returns		
16		42 35.5	64 38.5	23 Mar	No returns		
17	20511B	42 38.5	65 43	24 Mar	44 52.7	66 57.8	26 Sep 56
18		42 50	67 23	24 Mar	No returns		
19		42 48	68 05	24 Mar	No returns		
20	20556N	42 47	68 54.5	24 Mar	45 22	64 20	7 Sep 56
21	20563B	42 39.7	70 02	24 Mar	41 39	70 11.5	2 Sep 56
22	20579B	42 35	70 23.5	26 Mar	41 15.2	70 10	12 Jul 56
23		42 04.5	69 52	26 Mar	No returns		
24		42 04.8	68 57	26 Mar	No returns		
25		42 07.5	67 38	26 Mar	No returns		
26		42 04.3	67 00	27 Mar	No returns		
27		42 01.5	66 04	27 Mar	No returns		
27A	20648N	42 03	65 56	27 Mar	41 19	70 17	24 Jul 56
28		42 07	65 06	27 Mar	No returns		
29		42 46.5	65 07	27 Mar	No returns		
30	20677B	42 40.5	66 08.3	28 Mar	44 13	66 09	23 Oct 56
30	20680N	42 40.5	66 08.3	28 Mar	44 34.7	65 56.5	7 Jul 56
31		42 17.5	66 02	28 Mar	No returns		
32	20710N	41 45.5	65 53	28 Mar	41 23.2	70 03	25 Nov 56
33		41 50.5	67 02.5	28 Mar	No returns		
34	20728N	41 45.5	68 00	28 Mar	41 22.8	70 30.3	14 Jul 56
35		41 47	69 01.5	28 Mar	No returns		
36		41 47	69 46	29 Mar	No returns		

		Released			Recovered		
Station	Bottle	Lat	Long	Date	Lat	Long	Date
37		41 30	69 30	29 Mar	No returns		
38	20780N	41 25	68 44	29 Mar	41 47	70 02	12 Nov 56
39		41 30	67 48.5	29 Mar	No returns		
40		41 24.5	66 27	29 Mar	No returns		
41		41 20	66 05	29 Mar	No returns		
42		41 06	66 27	29 Mar	No returns		
43		41 05	67 17	29 Mar	No returns		
44		40 45.8	67 13	30 Mar	No returns		
45	20866N	40 45	66 44	30 Mar	41 44.9	70 35.4	4 Oct 56
46		40 26	67 18	30 Mar	No returns		
47	20892N	41 04.3	68 07.5	30 Mar	41 20.7	70 40	26 Jun 56
48	20893B	40 27.5	68 59	30 Mar	41 23.2	70 30.9	5 Jun 56
48	20896N	40 27.5	68 59	30 Mar	41 17.7	70 08.8	2 Jun 56
48	20899B	40 27.5	68 59	30 Mar	41 29.3	71 17.5	25 Jun 56
48	20903B	40 27.5	68 59	30 Mar	41 23.5	70 03	8 Jul 56
49	20907B	40 55	69 37.5	30 Mar	41 38.1	70 17	30 May 56
49	20909B	40 55	69 37.5	30 Mar	41 30	71 02.6	10 Jul 56
49	20911B	40 55	69 37.5	30 Mar	41 27.5	70 46.5	7 Jul 56
49	20915B	40 55	69 37.5	30 Mar	41 30.5	70 40.9	4 Jun 56
50	20917B	40 27	70 14	31 Mar	41 30.5	71 05.5	25 Jun 56
50	20918N	40 27	70 14	31 Mar	41 39	70 47.8	28 May 56
50	20921B	40 27	70 14	31 Mar	41 29.7	71 08	24 Jun 56
50	20922N	40 27	70 14	31 Mar	41 19	70 48.5	15 May 56
50	20927B	40 27	70 14	31 Mar	41 38.3	70 39	7 Jul 56
50	20928N	40 27	70 14	31 Mar	41 20.8	70 30	25 May 56
51	20930N	40 56.8	70 39	31 Mar	41 20.8	70 30	22 Jun 56
51	20934N	40 56.8	70 39	31 Mar	40 52.8	72 07	16 Apr 56
51	20936N	40 56.8	70 39	31 Mar	41 01.3	71 58.3	5 Apr 56
52	20941B	41 17.8	71 00	31 Mar	41 27.4	71 11.6	24 Jun 56
52	20942N	41 17.8	71 00	31 Mar	40 58.2	72 07	17 Apr 56
52	20944N	41 17.8	71 00	31 Mar	40 58.4	72 06.6	17 Apr 56
52	20946N	41 17.8	71 00	31 Mar	40 51.1	72 26.4	21 Apr 56
52	20948N	41 17.8	71 00	31 Mar	40 58.4	72 06.6	17 Apr 56
52	20949B	41 17.8	71 00	31 Mar	41 14.6	70 07.7	7 Jun 56
52	20950N	41 17.8	71 00	31 Mar	41 30.5	71 05.3	17 Apr 56
52	20952N	41 17.8	71 00	31 Mar	41 02.3	71 55.1	22 Apr 56

ALBATROSS III Cruise 73 17-28 April, 1956

		Released			Recovered		
Station	Bottle	Lat	Long	Date	Lat	Long	Date
1	20956N	40 56	71 00	17 Apr	41 21.8	70 29.7	25 May 56
1	20957B	40 56	71 00	17 Apr	41 25	70 27	20 Jul 56
1	20958N	40 56	71 00	17 Apr	41 30.4	70 41.6	15 Jul 56
1	20961B	40 56	71 00	17 Apr	41 29.2	71 15.5	8 Jul 56
1	20964N	40 56	71 00	17 Apr	41 40.2	70 00.8	2 Jun 56
2	20968N	40 31.4	71 00.2	17 Apr	41 22.6	70 30.2	15 Oct 56
3		40 00.5	70 56	17 Apr	No returns		
4	20992N	40 01.5	69 58.3	18 Apr	41 27.4	70 49.5	7 Jul 56
5		40 00.5	68 52.5	18 Apr	No returns		
6		40 00	68 00	18 Apr	No returns		
8		41 01.8	67 31.8	18 Apr	No returns		
9		41 29	67 11.7	18 Apr	No returns		
11	21054N	42 40	66 38	19 Apr	44 59	66 58	27 Jun 56
11	21060N	42 40	66 38	19 Apr	44 59	66 58	24 Jun 56
12	21065B	43 05	66 28	19 Apr	44 56.3	66 44	10 Oct 56
12	21066N	43 05	66 28	19 Apr	44 31	65 54.5	25 May 56
12	21070N	43 05	66 28	19 Apr	44 15	66 23	6 May 56
12	21072N	43 05	66 28	19 Apr	45 07	66 31.5	16 Sep 56
13	21075B	43 22.2	66 20.4	19 Apr	45 00	66 57	28 Jul 56
13	21076N	43 22.2	66 20.4	19 Apr	44 34	65 52	29 Jul 56
13	21078N	43 22.2	66 20.4	19 Apr	44 41	65 45	9 May 56
13	21079B	43 22.2	66 20.4	19 Apr	44 41	65 41	13 May 56
13	21084N	43 22.2	66 20.4	19 Apr	44 35.7	65 58	8 May 56
13A	21088N	43 44	66 38.5	19 Apr	45 05	66 39	4 Sep 56
13A	21089B	43 44	66 38.5	19 Apr	44 37	65 43	9 May 56
13A	21091B	43 44	66 38.5	19 Apr	44 01	68 37.5	21 Jul 56
13A	21092N	43 44	66 38.5	19 Apr	45 18	64 47	24 May 56
13A	21096N	43 44	66 38.5	19 Apr	45 20	64 48	10 May 56
14	21100N	43 55.5	66 51	19 Apr	45 02.3	66 53.6	4 Sep 56
14	21102N	43 55.5	66 51	19 Apr	45 20	64 48	11 May 56
14	21104N	43 55.5	66 51	19 Apr	45 08	67 02	28 Oct 56
14	21108N	43 55.5	66 51	19 Apr	44 47.5	65 35	20 May 56
15	21120N	43 50	68 02	19 Apr	40 48.5	69 56	17 Nov 56
16	21123B	43 40.5	69 00	19 Apr	43 31	70 22.4	2 Sep 56
16	21124N	43 40.5	69 00	19 Apr	43 10.5	70 36.5	12 Jun 56
16	21128N	43 40.5	69 00	19 Apr	43 38.5	70 13.7	11 Jun 56
16	21129B	43 40.5	69 00	19 Apr	43 39	70 12.8	14 Jun 56
17	21136N	43 29	70 02.5	20 Apr	42 38	70 36.7	30 Sep 56
17	21140N	43 29	70 02.5	20 Apr	43 49	69 52.9	13 Jun 56
18	21153B	43 00.4	70 30	20 Apr	44 49	65 21	12 Nov 56
19	21162N	42 58.3	70 00	20 Apr	45 15.2	65 48.5	16 Sep 56
19	21163B	42 58.3	70 00	20 Apr	45 10	64 46	14 Oct 56

		Released			Recovered		
Station	Bottle	Lat	Long	Date	Lat	Long	Date
20	21171B	42 53.2	68 55.8	20 Apr	44 50	66 56	14 Jul 56
21	21182N	42 48.8	68 03	20 Apr	44 55	66 56	16 Jun 56
21	21190N	42 48.8	68 03	20 Apr	43 41	70 07	12 Sep 56
21	21192N	42 48.8	68 03	20 Apr	42 18	70 55	11 Nov 56
22	21196N	42 53	67 00.5	20 Apr	45 28	64 52	26 Sep 56
22	21202N	42 53	67 00.5	20 Apr	44 48.5	66 58.9	12 Jun 56
23		42 54	66 13	21 Apr	No returns		
24		42 37	65 01.5	21 Apr	No returns		
25		42 01	65 12	21 Apr	No returns		
26	21241B	42 01.5	66 02	21 Apr	45 03	65 04	27 Nov 56
27		42 05.4	66 49	21 Apr	45 03	65 04	27 Nov 56
28	21271B	41 58	68 00	22 Apr	45 13	64 33	6 Nov 56
29	21287B	42 04.8	69 03.5	22 Apr	44 52	65 27	4 Nov 56
30		42 06.8	69 28.5	22 Apr	No returns		
31	21302N	42 14	69 46.1	22 Apr	42 04	70 15	27 Oct 56
31	21306N	42 14	69 46.1	22 Apr	43 27	65 28	7 Sep 56
32		42 33.4	70 38.8	22 Apr	No returns		
33		42 16.5	70 15.5	22 Apr	No returns		
34		41 31.5	69 40	23 Apr	No returns		
35		41 34.5	69 04	23 Apr	No returns		
36	21370N	41 28.5	67 55	23 Apr	41 21	70 50	30 Jul 56
37		41 30	66 54	23 Apr	No returns		
39		41 02	66 27.5	24 Apr	No returns		
40		41 01.5	66 58.5	24 Apr	No returns		
41		40 58.2	68 05.5	24 Apr	No returns		
42		41 03.5	69 04	24 Apr	No returns		
43		40 30.3	68 51	25 Apr	No returns		
44		40 30.5	68 00	25 Apr	No returns		
45		40 34	66 59	24 Apr	No returns		
46		41 13	66 28.5	25 Apr	No returns		
47		41 32	66 15.5	25 Apr	No returns		
48		42 13.2	65 46.8	25 Apr	No returns		
49		42 23	65 32.5	26 Apr	No returns		
50		42 59.5	65 10.1	26 Apr	No returns		
51		42 44.5	65 47	26 Apr	No returns		
52	21544N	42 33	66 27	26 Apr	45 03.5	67 04	5 Aug 56
52	21548N	42 33	66 27	26 Apr	44 31.8	67 38.4	18 Jul 56
52	21551B	42 33	66 27	26 Apr	44 37	65 43	16 Nov 56
53	21554N	42 19.8	66 56.7	26 Apr	42 22	70 58	27 Oct 56
54		42 23	66 02	26 Apr	No returns		
55	21578N	42 18.6	65 30.6	26 Apr	43 35	65 26	30 Jul 56
55	21581B	42 18.6	65 30.6	26 Apr	41 51	69 57	28 Oct 56
56	21595B	41 46.3	65 30.4	27 Apr	?	?	23 Jun 56
57		41 47.5	65 58	27 Apr	No returns		
58		41 45	67 03.5	27 Apr	No returns		
59		41 26.8	66 53.9	27 Apr	No returns		
60		41 10.5	66 43.5	27 Apr	No returns		
61		40 44.5	66 29.5	27 Apr	No returns		

		Released			Recovered		
Station	Bottle	Lat	Long	Date	Lat	Long	Date
62	21663B	40 46	67 39	27 Apr	41 32.5	70 39.6	17 Jul 56
63		40 44.5	68 05.8	28 Apr	No returns		
64		40 31.5	69 00	28 Apr	No returns		
65	21701B	40 48	70 02	28 Apr	41 27.5	71 11.6	13 Jul 56
65	21705B	40 48	70 02	28 Apr	41 11.9	71 35.5	17 Jul 56
65	21707B	40 48	70 02	28 Apr	41 18	70 16	24 Jul 56
66	21710N	41 04.4	70 34.7	28 Apr	41 17.2	70 14.8	2 Jun 56
66	21711B	41 04.4	70 34.7	28 Apr	41 39	70 11.8	4 Jun 56
66	21713B	41 04.4	70 34.7	28 Apr	41 36.9	70 26	13 Jul 56
66	21714N	41 04.4	70 34.7	28 Apr	41 20.9	70 35	4 Jun 56
66	21717B	41 04.4	70 34.7	28 Apr	41 19	70 49	23 Jul 56
66	21720N	41 04.4	70 34.7	28 Apr	41 20.9	70 33.5	4 Jun 56
67	21721B	41 11	70 50	28 Apr	41 36.5	70 24	1 Jun 56
67	21723B	41 11	70 50	28 Apr	41 39.4	69 59	10 Jun 56
67	21727B	41 11	70 50	28 Apr	41 38	70 15	29 Jun 56
67	21728N	41 11	70 50	28 Apr	41 29.8	71 02.4	26 May 56
67	21731B	41 11	70 50	28 Apr	41 36.5	70 39	2 Jun 56
67	21723N	41 11	70 50	28 Apr	41 39.2	70 07	23 May 56

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		Released			Recovered		
Station	Bottle	Lat	Long	Date	Lat	Long	Date
1	21733B	41 01.7	70 57.7	16 May	41 30.5	71 04	24 Jun 56
1	21734N	41 01.7	70 57.7	16 May	41 16.5	70 13.4	2 Jun 56
1	21735B	41 01.7	70 57.7	16 May	36 31	75 52	24 Oct 56
1	21739B	41 01.7	70 57.7	16 May	41 24.2	70 31.5	10 Jun 56
1	21740N	41 01.7	70 57.7	16 May	41 17.2	70 14.8	4 Jun 56
1	21741B	41 01.7	70 57.7	16 May	41 23.1	70 30	9 Jun 56
1	21743B	41 01.7	70 57.7	16 May	41 23.2	70 30.8	5 Jun 56
1	21744N	41 01.7	70 57.7	16 May	41 39.4	70 07	21 Jun 56
2	21750N	40 09	70 58.6	16 May	35 41	75 29	7 Nov 56
2	21754N	40 09	70 58.6	16 May	41 20.8	70 50.4	12 Jun 56
3		40 00.5	71 00	16 May	No returns		
4		39 57.8	69 33	17 May	No returns		
5	21782N	40 00.5	68 51	17 May	41 09	71 34	1 Sep 56
5	21785B	40 00.5	68 51	17 May	41 21	70 29	30 Jul 56
5	21789B	40 00.5	68 51	17 May	35 46	75 31	1 Nov 56
6		40 01.5	67 59.8	17 May	No returns		
7		40 39	67 37.5	17 May	No returns		
8	21818N	41 03	67 17	17 May	41 21.8	70 30	14 Jul 56
8	21819B	41 03	67 17	17 May	41 21	70 01.6	21 Jul 56
9		41 27	66 51	17 May	No returns		
10	21844N	41 57	66 30	18 May	43 25	65 37	27 Jul 56
11	21854N	42 34	66 06	18 May	44 51	66 58	29 Jul 56
11	21855B	42 34	66 06	18 May	45 20	64 47	29 Aug 56
11	21859B	42 34	66 06	18 May	41 44.7	70 25	27 Oct 56
12	21872N	43 01.5	65 46	18 May	44 28	63 36	22 Aug 56
13	21882N	43 15.4	66 03.7	18 May	42 02.5	70 03.7	30 Sep 56
13	21885B	43 15.4	66 03.7	18 May	42 02	70 06	16 Oct 56
13	21887B	43 15.4	66 03.7	18 May	43 42	69 50	1 Jul 56
13	21888N	43 15.4	66 03.7	18 May	43 42	69 50	3 Jul 56
14	21889B	43 17	66 43	18 May	44 58.5	67 00.7	24 Jul 56
14	21896N	43 17	66 43	18 May	43 33.4	70 17	19 Jun 56
14	21898N	43 17	66 43	18 May	43 42.1	69 50	11 Jul 56
15	21904N	43 16.5	67 23	18 May	45 27.5	64 52	2 Aug 56
16		43 45.2	67 20.9	18 May	No returns		
17	21926N	43 44.3	66 25.7	19 May	44 27	66 07	2 Jun 56
17	21931B	43 44.3	66 25.7	19 May	44 30	66 06	30 May 56
18	21941B	44 00.2	66 26.2	19 May	44 48	66 47	25 Jul 56
18	21984N	44 00.2	66 26.2	19 May	44 05	66 11	24 Oct 56
19	21954N	44 15.5	66 55	19 May	44 25	66 03	28 Jul 56
19	21958N	44 15.5	66 55	19 May	43 48.8	70 05.7	4 Aug 56
20		44 21	67 21.8	19 May	No returns		
21	21980N	44 28	66 37	19 May	44 24.4	68 00	23 Sep 56

		Released			Recovered		
Station	Bottle	Lat	Long	Date	Lat	Long	Date
22	21988N	44 32	66 11	19 May	45 05.5	64 58	19 Jun 56
22	21989B	44 32	66 11	19 May	41 18.7	70 03.6	2 Dec 56
22	21991B	44 32	66 11	19 May	45 20	64 47	5 Aug 56
22	21992N	44 32	66 11	19 May	45 02.5	66 48.5	17 Jun 56
22	21996N	44 32	66 11	19 May	45 01.7	65 06	23 May 56
23	21997B	44 49	65 40	19 May	44 56	65 18	3 Jun 56
23	21998N	44 49	65 40	19 May	42 04	70 15	29 Nov 56
23	22001B	44 49	65 40	19 May	45 03.5	66 52	25 Jun 56
23	22004N	44 49	65 40	19 May	45 08	64 53	19 Jun 56
23	22006N	44 49	65 40	19 May	45 10	64 45.7	9 Aug 56
23	22008N	44 49	65 40	19 May	44 31	67 37.3	16 Jul 56
24	22009B	45 04.2	65 15.5	19 May	45 08	64 53	19 Jun 56
24	22010N	45 04.2	65 15.5	19 May	44 31.7	67 37	27 Aug 56
24	22011B	45 04.2	65 15.5	19 May	42 34.7	70 44	12 Oct 56
25	22021B	45 04.7	65 40	19 May	45 01.5	66 50	1 Jul 56
25	22026N	45 04.7	65 40	19 May	45 08	64 53	19 Jun 56
25	22028N	45 04.7	65 40	19 May	45 00	65 10	24 May 56
26	22036N	45 02.4	66 19.8	19 May	45 07	66 31	24 Jun 56
26	22038N	45 02.4	66 19.8	19 May	45 08	66 32	14 Sep 56
26	22042N	45 02.4	66 19.8	19 May	45 06	66 35	28 May 56
26	22043B	45 02.4	66 19.8	19 May	41 44.9	70 35.7	26 Nov 56
27	22051B	44 51	66 27	19 May	44 55	66 56	1 Jul 56
27	22053B	44 51	66 27	19 May	45 10	64 46	6 Nov 56
28	22058N	44 38.2	66 33.8	20 May	45 04	66 28	16 Jun 56
28	22060N	44 38.2	66 33.8	20 May	45 05	66 49	20 Jul 56
28	22066N	44 38.2	66 33.8	20 May	45 04	67 02.5	17 Jul 56
28	22067B	44 38.2	66 33.8	20 May	43 48.8	69 51.7	22 Sep 56
28	22068	44 38.2	66 33.8	20 May	44 55	66 55	18 Jun 56
29	22072N	44 20.5	66 26	20 May	44 26	66 54	13 Jun 56
30	22087B	44 09.5	67 16.5	20 May	45 10	66 46	31 Oct 56
31	22093B	43 55	67 56	20 May	41 41	69 57	27 Oct 56
31	22094N	43 55	67 56	20 May	44 52.6	66 55.5	24 Oct 56
31	22104N	43 55	67 56	20 May	44 23.4	68 05.6	19 Jul 56
32	22106N	43 40	68 58	20 May	44 24	66 04	4 Aug 56
33	22120N	43 32.4	70 01.9	20 May	43 45.7	69 51.7	5 Jun 56
33	22122N	43 32.4	70 01.9	20 May	43 41	70 09	24 Jun 56
33	22128N	43 32.4	70 01.9	20 May	43 40.6	70 10	16 Jul 56
34	22130N	42 58.6	70 30.4	21 May	43 10.5	70 36.5	11 Jul 56
34	22140N	42 58.6	70 30.4	21 May	42 35.5	70 39	1 Jul 56
35	22142N	42 56	70 05.5	21 May	44 16	66 20	26 Oct 56
35	22144N	42 56	70 05.5	21 May	42 01.7	70 05.5	22 Nov 56
35	22146N	42 56	70 05.5	21 May	44 30	66 00	5 Aug 56
36	22154N	42 52	68 48	21 May	44 18	66 20	30 Jul 56
36	22155B	42 52	68 48	21 May	42 01.9	70 05.6	24 Nov 56

		Released			Recovered		
Station	Bottle	Lat	Long	Date	Lat	Long	Date
37		42 49.8	68 00.9	21 May	No returns		
38	22181B	42 45.4	66 47	21 May	45 07	64 24	7 Oct 56
38	22182N	42 45.4	66 47	21 May	44 59	66 57	25 Jul 56
38	22184N	42 45.4	66 47	21 May	42 03.7	70 14.7	26 Nov 56
39	22193B	42 42.4	65 55	21 May	43 44.7	70 00.5	16 Sep 56
40		42 35.2	65 03.5	22 May	No returns		
41		42 59	65 03.3	22 May	No returns		
42	22230N	43 02	66 03	22 May	43 45.5	69 37	23 Aug 56
42	22235B	43 02	66 03	22 May	41 18	70 05	23 Nov 56
43	22237B	43 04.3	66 57	22 May	41 49	69 58	30 Aug 56
43	22238N	43 04.3	66 57	22 May	44 38	66 42	27 Jul 56
43	22245B	43 04.3	66 57	22 May	41 43.5	69 55.7	30 Sep 56
44		42 20.9	67 00	22 May	No returns		
45		42 17	65 48.5	22 May	No returns		
46		42 14.5	65 02.7	23 May	No returns		
47		41 59.2	65 04.2	23 May	No returns		
48	22307B	42 05	66 00	23 May	36 22.5	75 49	2 Nov 56
49		42 10.4	67 02	23 May	No returns		
50		42 04	68 11	23 May	No returns		
51		42 04	68 58	23 May	No returns		
52		42 03.5	69 32.9	24 May	No returns		
53	22366N	42 38.2	69 33	24 May	45 03.6	66 27.5	14 Sep 56
54	22369B	42 34.2	70 34	24 May	42 34.5	70 42.5	22 Jul 56
54	22370N	42 34.2	70 34	24 May	42 35	70 41.8	27 May 56
54	22373B	42 34.2	70 34	24 May	42 35	70 41.8	27 May 56
54	22374N	42 34.2	70 34	24 May	42 34.8	70 44	28 May 56
54	22375B	42 34.2	70 34	24 May	42 35	70 41.8	27 May 56
54	22376N	42 34.2	70 34	24 May	42 34.7	70 44.2	26 May 56
54	22380N	42 34.2	70 34	24 May	42 35	70 41.8	28 May 56
55		42 09.7	70 31.2	24 May	No returns		
56		42 06.3	69 57.5	24 May	No returns		
57		41 31.3	69 45	24 May	No returns		
58	22428N	41 37.2	69 00	24 May	36 54	75 59.3	28 Oct 56
59		41 26	67 44.5	25 May	No returns		
60		41 32	66 57	25 May	No returns		
61		41 31.6	66 18.7	25 May	No returns		
62		41 18.8	65 57.7	25 May	No returns		
63		41 06.5	66 12	25 May	No returns		
64	22494N	41 06	67 15.5	25 May	41 20	70 02	3 Aug 56
65	22506N	41 06.5	67 59.5	26 May	44 55	65 21	3 Nov 56
66	22514N	40 59.5	68 51	26 May	36 15	75 47	2 Nov 56
66	22522N	40 59.5	68 51	26 May	36 52	75 59	4 Nov 56
67	22533B	40 59	69 12.8	26 May	36 32	75 52	1 Nov 56
68		40 41	69 08	26 May	No returns		
69		40 43.3	68 45.3	26 May	No returns		
70		40 40.6	67 55	26 May	No returns		

		Released			Recovered		
Station	Bottle	Lat	Long	Date	Lat	Long	Date
71		40 37.2	67 24	26 May	No returns		
72		40 38.5	66 46.6	26 May	No returns		
73		40 05	66 50	27 May	No returns		
74		40 23.5	67 28	27 May	No returns		
74X	22632N	40 37.2	68 01.8	27 May	41 36	70 39	24 Jul 56
75		40 18	68 12	27 May	No returns		
76	22654N	40 13	68 23	27 May	35 59	75 38	26 Oct 56
76	22656N	40 13	68 23	27 May	41 23	70 30	10 Aug 56
77		40 28	68 59.5	27 May	No returns		
78	22673B	40 11	69 09	27 May	41 30	71 02	21 Jul 56
78	22675B	40 11	69 09	27 May	41 15	70 10	2 Jul 56
79	22684N	40 21	70 21.4	28 May	41 28.5	70 48	1 Jul 56
79	22685B	40 21	70 21.4	28 May	41 15	70 10	3 Jul 56
79	22689B	40 21	70 21.4	28 May	41 32.5	70 39.5	23 Jul 56
79	22690N	40 21	70 21.4	28 May	41 25.2	70 55.6	26 Jun 56
79	22691B	40 21	70 21.4	28 May	41 34	70 31	11 Jul 56
79	22692N	40 21	70 21.4	28 May	41 33	70 39.2	21 Jul 56
80		40 07	70 25.5	28 May	No returns		
81		39 46.5	70 27.5	28 May	No returns		
82		39 50.7	71 01	28 May	No returns		
83		40 12	71 19	28 May	No returns		
84		40 28.7	71 35.2	28 May	No returns		
85		40 03	72 00.3	28 May	No returns		
86		40 31.5	72 02.3	29 May	No returns		
87		40 45.5	72 04	29 May	No returns		
88		41 02	71 32	29 May	No returns		
89	22801B	41 17.5	71 00	29 May	41 18.3	70 47.4	4 Jun 56
89	22803B	41 17.5	71 00	29 May	41 20	70 49.5	1 Jun 56
89	22804N	41 7.5	71 00	29 May	41 39.2	70 45.4	4 Jul 56
89	22808N	41 17.5	71 00	29 May	41 31.7	70 40.6	6 Jun 56
89	22810N	41 17.5	71 00	29 May	41 21	70 50.4	3 Jun 56
89	22811B	41 17.5	71 00	29 May	41 18.3	70 47.4	4 Jun 56

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		Released			Recovered		
Station	Bottle	Lat	Long	Date	Lat	Long	Date
1	22821B	40 41	71 01	11 Jun	36 23	75 49	23 Oct 56
1	22814N	40 41	71 01	11 Jun	41 30.5	71 05.4	22 Jul 56
2		40 01	71 00	11 Jun	No returns		
3		40 00	70 10	12 Jun	No returns		
4		39 58	69 18	12 Jun	No returns		
5		39 58.5	68 46	12 Jun	No returns		
6		40 03	68 00	12 Jun	No returns		
7		40 31.5	67 40.5	12 Jun	No returns		
8	22899B	41 05	67 17	12 Jun	38 03	75 13.5	4 Nov 56
9		41 36.5	66 58.5	12 Jun	No returns		
10		42 07	66 31	13 Jun	No returns		
11	22936N	42 29	66 06.5	13 Jun	44 35	65 52	6 Aug 56
11	22937B	42 29	66 06.5	13 Jun	44 52	65 27	13 Nov 56
12	22952N	43 00	65 54	13 Jun	41 40	69 56	19 Oct 56
12	22954N	43 00	65 54	13 Jun	41 56.6	69 59	3 Nov 56
13	22957B	43 12	66 24	13 Jun	42 01.9	70 05.6	23 Nov 56
13	22960N	43 12	66 24	13 Jun	45 12	64 37	10 Sep 56
14		43 11	66 59	13 Jun	No returns		
15		43 33.8	66 15.3	13 Jun	No returns		
16	23000N	43 35	67 03.2	13 Jun	42 37.8	70 39.4	14 Oct 56
17	23016N	44 02	66 37.5	14 Jun	45 02.5	66 47	6 Sep 56
18	23028N	44 17.5	66 30	14 Jun	43 59.1	66 09.6	25 Nov 56
19	23038N	44 24	66 42.5	14 Jun	45 01	66 56.7	10 Jul 56
20	20347B	44 44	66 00	14 Jun	44 39	67 21	22 Aug 56
20	23050N	44 44	66 00	14 Jun	45 04.5	66 28	1 Jul 56
20	23051B	44 44	66 00	14 Jun	42 38.4	66 00	4 Nov 56
21	23056N	45 03.5	65 18	14 Jun	45 02.5	66 48.5	29 Jun 56
21	23059B	45 03.5	65 18	14 Jun	45 03	66 46	25 Oct 56
21	23060N	45 03.5	65 18	14 Jun	41 52	69 57	27 Oct 56
21	23064N	45 03.5	65 18	14 Jun	45 19.5	64 47.5	14 Sep 56
22	23068N	45 00.8	66 07	14 Jun	44 46	66 45	30 Jul 56
22	23070N	45 00.8	66 07	14 Jun	44 39.4	66 46	5 Aug 56
22	23071B	45 00.8	66 07	14 Jun	44 50.3	66 57.1	16 Jul 56
23	23084N	44 58.8	66 33.8	14 Jun	40 17.7	70 06.6	11 Nov 56
24	23096N	44 32	66 12	14 Jun	44 46	66 44	29 Jul 56
24	23097B	44 32	66 12	14 Jun	45 07	66 31	14 Sep 56
25		44 13.5	66 58	15 Jun	No returns		
26		43 58	67 34	15 Jun	No returns		
27	23125B	43 50	67 57.5	15 Jun	42 01.9	70 05.6	24 Nov 56
27	23126N	43 50	67 37.5	15 Jun	44 52	66 56	21 Sep 56
28	23140N	43 46.5	68 40	15 Jun	45 02	66 52	24 Aug 56
28	23143B	43 46.5	68 40	15 Jun	43 51.3	69 52.7	30 Sep 56
28	23146N	43 46.5	68 40	15 Jun	43 45.7	69 51.8	2 Jul 56

		Released			Recovered		
Station	Bottle	Lat	Long	Date	Lat	Long	Date
28	23147B	43 46.5	68 40	15 Jun	43 44	69 52	4 Aug 56
29	23160N	43 39	69 38.2	15 Jun	43 43.1	70 08.1	14 Jul 56
30		43 22.1	69 17.5	15 Jun	No returns		
31	23180N	43 05.5	70 05	15 Jun	45 08	64 53	9 Aug 56
31	23184N	43 05.5	70 05	15 Jun	45 03.2	67 02.5	10 Sep 56
32	23196N	43 01.5	69 30.5	16 Jun	45 02.5	66 53.5	14 Sep 56
33		42 58	68 45.5	16 Jun	No returns		
34	23209B	42 53	67 52	16 Jun	44 14	66 23.3	14 Sep 56
35	23228N	42 47.5	67 19.5	16 Jun	44 20	66 08	3 Aug 56
36	23234N	42 45	66 19	16 Jun	44 18	66 08	31 Jul 56
36	23235B	42 45	66 19	16 Jun	44 34	65 52	29 Jul 56
36	23236N	42 45	66 19	16 Jun	43 46.7	66 08	9 Jul 56
37		42 44.8	65 11.5	17 Jun	No returns		
38	23258N	42 50	65 45	17 Jun	43 40	65 52	12 Jul 56
38	23259B	42 50	65 45	17 Jun	44 29.5	65 57	7 Aug 56
38	23262N	42 50	65 45	17 Jun	44 40	63 54	29 Jul 56
38	23263B	42 50	65 45	17 Jun	44 20	66 07.5	3 Aug 56
38	23268N	42 50	65 45	17 Jun	44 23	66 04	31 Jul 56
39	23070N	42 38	66 43.5	17 Jun	42 06.8	70 40.3	1 Nov 56
40		42 22.8	65 45.1	17 Jun	No returns		
41		42 04.8	65 34.1	17 Jun	No returns		
42		41 53.5	65 43.5	17 Jun	No returns		
43		41 26.1	66 01	17 Jun	No returns		
44		41 24.5	66 45	17 Jun	No returns		
45	23348N	41 28	67 26	18 Jun	36 13	75 46	31 Oct 56
46		41 31	68 13.3	18 Jun	No returns		
47	23374N	41 29.5	69 30	18 Jun	36 43	75 56	26 Oct 56
48		41 55.5	69 42.5	18 Jun	No returns		
49	23398N	42 18.5	70 10	18 Jun	44 28.2	66 08.3	9 Oct 56
50	23411B	42 34.5	70 27	18 Jun	45 18	64 32	22 Oct 56
51		42 46	70 24	19 Jun	No returns		
52		42 42.3	69 15.8	19 Jun	No returns		
53	23448N	42 06	69 10	19 Jun	44 20	66 08	4 Aug 56
54		42 05	68 22	19 Jun	No returns		
55		42 05	67 36	19 Jun	No returns		
56		42 07	66 51	19 Jun	No returns		
57	43485B	41 43	66 08	20 Jun	41 56	65 40	9 Jul 56
58		41 28	66 25	20 Jun	No returns		
59		41 09	66 43	20 Jun	No returns		
60		41 04.5	66 50	20 Jun	No returns		
61		41 05	67 22	20 Jun	No returns		
62		41 01	68 16	20 Jun	No returns		
63		41 02.8	69 00.8	20 Jun	No returns		
64		40 52	69 03	20 Jun	No returns		
65		40 43.5	68 28	20 Jun	No returns		

		Released			Recovered		
Station	Bottle	Lat	Long	Date	Lat	Long	Date
66		40 45.5	67 32	21 Jun	No returns		
67		40 44	67 01	21 Jun	No returns		
68	23625B	40 25.7	67 19.3	21 Jun	36 00	75 39	19 Oct 56
69		40 40	67 43	21 Jun	No returns		
70		40 27.8	67 56.5	21 Jun	No returns		
71		40 13	68 20	21 Jun	No returns		
72		40 37	68 51	21 Jun	No returns		
73	23678N	40 19	69 24	21 Jun	41 21	70 28	20 Aug 56
73	23684N	40 19	69 24	21 Jun	35 44	75 29	18 Oct 56
73	23686N	40 19	69 24	21 Jun	41 18.5	70 47.6	22 Jul 56
73	23688N	40 19	69 24	21 Jun	41 40	69 59	28 Jul 56
74		39 53	69 42.6	22 Jun	No returns		
75	23701B	40 16	70 05	22 Jun	41 26.2	70 41.5	11 Aug 56
75	23702N	40 16	70 05	22 Jun	41 23	70 30.5	1 Sep 56
75	23704N	40 16	70 05	22 Jun	36 23.5	75 49.4	27 Oct 56
75	23705B	40 16	70 05	22 Jun	41 30.5	71 04	19 Aug 56
75	23706N	40 16	70 05	22 Jun	41 20	70 49.5	17 Aug 56
75	23707B	40 16	70 05	22 Jun	35 52	75 34	11 Nov 56
75	23708N	40 16	70 05	22 Jun	41 23	70 02	29 Jul 56
75	23712N	40 16	70 05	22 Jun	41 17.1	70 14.9	22 Jul 56
76	23714N	40 38	70 23.2	22 Jun	41 25.4	70 55	9 Jul 56
76	23715B	40 38	70 23.2	22 Jun	41 25.4	70 54	18 Jul 56
76	23717B	40 38	70 23.2	22 Jun	41 39	70 10	22 Jul 56
76	23718N	40 38	70 23.2	22 Jun	41 34	70 29	11 Jul 56
76	23721B	40 38	70 23.2	22 Jun	41 38	70 39	28 Jul 56
76	23722N	40 38	70 23.2	22 Jun	41 17.1	70 14.7	4 Jul 56
76	23723B	40 38	70 23.2	22 Jun	41 35	70 49.5	22 Jul 56
76	23724N	40 38	70 23.2	22 Jun	41 16.7	70 13.8	2 Jul 56
77	23733B	40 05.5	70 54	22 Jun	36 36	75 50	20 Oct 56
78		40 06	71 10	22 Jun	No returns		
79		40 16	71 04	22 Jun	No returns		
80		40 25.8	71 18.4	22 Jun	No returns		
81		39 58.5	71 44	22 Jun	No returns		
82		40 09.6	72 09.5	23 Jun	No returns		
83		40 00	72 16.5	23 Jun	No returns		
84		39 45.5	72 32	23 Jun	No returns		
85		39 50.5	72 47	23 Jun	No returns		
86		40 02	73 03	23 Jun	No returns		
87	23846N	40 18	72 52.5	23 Jun	35 06	75 57	8 Nov 56
87	23848N	40 18	72 52.5	23 Jun	36 25	75 50	22 Oct 56
87	23852N	40 18	72 52.5	23 Jun	39 54	74 05	23 Jul 56
87	23856N	40 18	72 52.5	23 Jun	36 30	75 51	18 Oct 56
88		40 34	72 42	23 Jun	No returns		
89		40 10	72 32.5	23 Jun	No returns		
90	23888N	40 17	72 21	23 Jun	36 19	75 48	21 Oct 56
90	23889B	40 17	72 21	23 Jun	36 01	75 39	23 Oct 56
91		40 39	72 06.5	23 Jun	No returns		

		Released			Recovered		
Station	Bottle	Lat	Long	Date	Lat	Long	Date
92		40 24.4	71 48.8	23 Jun	No returns		
93	23923B	40 51.5	71 28	23 Jun	41 21.8	71 37	2 Sep 56
94	23930N	41 00.5	71 14	23 Jun	39 09.5	74 41	27 Oct 56
94	23933B	41 00.5	71 14	23 Jun	41 36.2	71 20	8 Sep 56
94	23936N	41 00.5	71 14	23 Jun	41 19	70 48.5	5 Aug 56
94	23939B	41 00.5	71 14	23 Jun	41 39.5	69 59.1	29 Aug 56
95	23941B	41 17.5	71 00	24 Jun	41 28	71 11	25 Jul 56
95	23942N	41 17.5	71 00	24 Jun	41 27.7	71 10.2	27 Jun 56
95	23946N	41 17.5	71 00	24 Jun	41 27.7	71 10.2	29 Jun 56
95	23952N	41 17.5	71 00	24 Jun	41 27.7	71 10.2	29 Jun 56

Appendix
Returns from 5 December 1956
to 21 October 1957

Station	Bottle	Released Lat	Long	Date	Recovered Lat	Long	Date
			ALBATROSS III Cruise 46				
55	12760N	42 00	69 53	31 Mar 53	41 15.2	70 10.2	6 Mar 57
			Cruise 48				
2	12927B	41 01.5	71 00.5	24 Apr 53	41 08	70 45	25 Jun 57*
31	13271B	42 14.5	70 34	29 Apr 53	40 37	73 13	10 Jul 57*
			Cruise 50				
28	16211B	41 46.5	68 07	30 May 53	48 40	04 13	15 Jan 57
5	13927B	40 24.5	69 00	26 May 53	40 40.5	72 54	21 May 57*
			Cruise 57				
18	16314N	43 44	69 00	24 Feb 55	50 45	00 52	26 Mar 57
27	16419B	42 45	68 01	25 Feb 55	60 30	01 22	4 May 57
			Cruise 58				
19	16966N	43 41.5	69 00	22 Mar 55	54 10	10 00	26 Dec 56
60	17532N	40 36.5	69 18.5	1 Apr 55	55 30	08 15E	6 Jan 57
X	172853	41 59	69 59	28 Mar 55	51 41	09 40	13 Dec 56
X	17270N	41 59	69 59	28 Mar 55	41 16.7	70 05.3	3 Jan 57
30	17104N	42 21.5	66 22	24 Mar 55	70 35	23 00E	30 Jul 57
			Cruise 60				
9	17695B	41 02.5	67 29	20 Apr 55	53 14	09 35	4 Feb 57
64	18353B	41 00	68 49.3	29 Apr 55	64 15	10 15E	5 Feb 57
48	18157B	41 44	69 20	27 Apr 55	40 43.6	72 53.1	14 Jul 55
71	18435B	41 01.5	66 32	30 Apr 55	47 48	04 28	6 Feb 57
100	18785B	40 38.5	70 07.7	3 May 55	41 20.7	70 30	26 Mar 57
8	17681B	40 31	67 41	20 Apr 55	64 30	11 25E	25 Apr 57
27	17911B	42 55.8	69 33.8	22 Apr 55	40 57	70 22	20 Aug 57*

* Bottle recovered from bottom

Station	Bottle	Released Lat	Released Long	Released Date	Recovered Lat	Recovered Long	Recovered Date
			Cruise 61				
15	18990N	43 29.3	66 11.2	19 May 55	41 54.5	70 01	25 Jul 57
40	19284N	41 03.6	67 00.9	24 May 55	69 40	19 00E	18 Jan 57
			Cruise 71				
48	20114N	41 36	66 00	29 Feb 56	51 41	05 10	1 Apr 57
12	19618N	41 55.3	67 01	22 Feb 56	54 ?	09 ?	1 May 57
21	20375B	43 30.5	69 20.7	23 Feb 56	57 39	07 27	3 May 57
38	19985B	42 09.4	68 25.2	25 Feb 56	41 39.5	70 06.9	13 Jul 57
18	19691B	43 50	67 30	23 Feb 56	54 08	10 11	2 Aug 57
29	19809B	42 42.5	66 15	24 Feb 56	54 28	08 18	22 Aug 57
21	20371B	43 30.5	69 20.7	23 Feb 56	41 21	70 01.5	21 Oct 57
			Cruise 72				
12	20458N	42 40	66 22	23 Mar 56	44 11	66 10	24 Jan 57
21	20558N	42 39.7	70 02	24 Mar 56	41 48	69 56	18 Jan 57
31	20691B	42 17.5	66 02	28 Mar 56	32 20	64 40.8	13 Dec 56
11	20448N	42 09	66 54	23 Mar 56	51 03	9 08	3 Apr 57
30	20687B	42 40.5	66 08.3	28 Mar 56	43 45.5	70 01.5	31 Mar 57
9	20420N	41 06	67 26.5	22 Mar 56	60 29	01 38	1 May 57
15	20487B	42 59	64 40	23 Mar 56	56 30	07 00	4 May 57
22	20569B	42 35	70 23.5	26 Mar 56	37 54	75 20	26 May 57
22	20570N	42 35	70 23.5	26 Mar 56	59 08	07 19	17 Jul 57
37	20770N	41 30	69 30	29 Mar 56	37 45	25 45	17 Jun 57
42	20822N	41 06	66 27	29 Mar 56	56 40	06 30	5 Jul 57
22	20576N	42 35	70 23.5	26 Mar 56	36 20	75 48.7	8 Aug 57
2	20286N	40 38	71 01	21 Mar 56	37 50	25 30	16 Aug 57
15	20490N	42 59	64 40	24 Mar 56	53 48	09 58	24 Aug 57
29	20671B	42 46.5	65 07	27 Mar 56	48 30	04 50	15 Sep 57
33	20722N	41 50.5	67 02.5	28 Mar 56	47 25	02 30	25 Sep 57
			Cruise 73				
14	21105B	43 55.5	66 51	9 Apr 56	45 12	64 37	23 Nov 56
17	21143B	43 29	70 02.5	20 Apr 56	44 48.8	65 32.2	8 Jan 57
32	21320N	42 33.4	70 38.8	22 Apr 56	44 48.8	65 32.2	9 Jan 57
55	21583B	42 18.6	65 30.6	26 Apr 56	44 05	66 12.2	12 Dec 56
65	21702N	40 48	70 02	28 Apr 56	35 34	75 27.7	10 Jan 57
15	21116N	43 50	68 02	19 Apr 56	43 48	66 09	22 Feb 57
45	21457B	40 34	66 59	25 Apr 56	57 40	06 20	13 Feb 57
56	21590N	41 46.3	65 30.4	27 Apr 56	55 00.9	08 33.6	30 Jan 57

		Released			Recovered		
Station	Bottle	Lat	Long	Date	Lat	Long	Date
				Cruise 73			
57	21604N	41 47.5	65 58	27 Apr 56	39 23	31 18	30 Jan 57
35	21360N	41 34.5	69 04	23 Apr 56	57 32	07 23	19 Apr 57
31	21310N	42 14	69 46.1	22 Apr 56	41 55	66 59	29 Aug 57
45	21458N	40 34	66 59	25 Apr 56	51 35	09 50	24 Aug 57
62	21662N	40 46	67 39	27 Apr 56	39 50	31 10	13 Mar 57
				Cruise 75			
8	21825B	41 03	67 17	17 May 6	36 50	75 50.5	20 Jan 57
10	21848N	41 57	66 30	18 May 56	43 57	59 44	26 Nov 56
39	22190N	42 42.4	65 55	21 May 56	43 57	59 44	25 Nov 56
45	22270N	42 17	65 48.5	22 May 56	44 54.6	65 20.2	17 Dec 56
52	22346N	42 03.5	69 32.9	24 May 56	43 53.1	66 09.9	7 Dec 56
27	22047B	44 51	66 27	19 May 56	44 39	65 52	11 Mar 57
47	22276N	42 14.5	65 02.7	23 May 56	35 35	75 27.6	22 Feb 57
65	22508N	41 06.5	67 59.5	26 May 56	35 47	75 32	24 Feb 57
20	21972N	44 21	67 21.8	19 May 56	35 46	75 31	1 Apr 57
61	22458N	41 31.6	66 18.7	25 May 56	53 10	09 45	21 Mar 57
43	22239B	43 04.3	66 57	22 May 56	44 46.6	67 37	27 May 57
5	21784N	40 00.5	68 51	17 May 56	54 20	10 00	11 Jun 57
44	22250N	42 20.9	67 00	22 May 56	37 45	25 30	19 Jul 57
39	22200N	42 42.4	65 55	21 May 56	55 10	07 50	18 Jul 57
75	22644N	40 18	68 12	27 May 56	48 30	04 44	22 Aug 57
62	22467B	41 18.8	65 57.7	25 May 56	57 25	07 22	22 Sep 57
74	22612N	40 23.5	67 28	27 May 56	55 17	07 09	2 Oct 57
85	22756N	40 03	72 00.3	28 May 56	58 38	03 22	29 Sep 57
				Cruise 76			
17	23015B	44 02	66 37.5	14 Jun 56	41 44	70 38	8 Dec 56
19	23035B	44 24	66 42.5	14 Jun 56	44 17.5	66 08	11 Feb 57
20	23043B	44 44	66 00	14 Jun 56	45 12	64 37.5	12 Dec 56
22	23076N	45 00.8	66 07	14 Jun 56	44 17.2	66 20.6	22 Dec 56
25	23104N	44 13.5	66 58	15 Jun 56	45 00.5	65 09.3	8 Dec 56
26	23119B	43 58	67 34	15 Jun 56	44 05	66 12.8	21 Jan 57
28	23141B	43 46.5	68 40	15 Jun 56	44 23.4	66 03.8	16 Dec 56
45	23349B	41 28	67 26	18 Jun 56	44 54.5	65 21.4	2 Jan 57
93	23924N	40 51.5	71 28	23 Jun 56	36 22.6	75 49.4	15 Dec 56
1	22816N	40 41	71 01	11 Jun 56	Virginia Coast		9 Mar 57
16	23001B	43 35	67 03.2	13 Jun 56	43 47.7	66 20	25 Feb 57
36	23243B	42 45	66 19	16 Jun 56	44 18	66 07.5	11 Mar 57
45	23321B	41 26.4	66 01	17 Jun 56	39 25	31 15	6 Mar 57

		Released			Recovered		
Station	Bottle	Lat	Long	Date	Lat	Long	Date
29	23158N	43 39	69 30.2	15 Jun 56	43 51	69 59	27 May 57
41	23304N	42 04.8	65 34.1	17 Jun 56	55 10	06 47	8 Jun 57
74	23692N	39 53	69 42.6	22 Jun 56	35 33.9	75 27.7	14 Jun 57
77	23731B	40 00.5	70 54	22 Jun 56	36 22.5	75 49.4	25 Jun 57
22	23066N	45 00.8	66 07	14 Jun 56	45 17.5	64 46.5	15 May 57
1	22824N	40 41	71 01	11 Jun 56	34 55	76 14	11 Oct 57
61	23536N	41 05	67 22	20 Jun 56	57 07	69 45	25 Sep 57
90	23890N	40 17	72 21	23 Jun 56	35 22	75 29.6	9 Oct 57

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